



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 176094

TO: Mary K Zeman
Location: rem/2D61/2C70
Art Unit: 1631
Friday, January 20, 2006
Case Serial Number: 08/836075

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518 *BOB*

barbara.obryen@uspto.gov

Search Notes

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STIC-Biotech/ChemLib

[Handwritten scribbles]

MEJ

From: Pak, Michael
Sent: Tuesday, January 10, 2006 2:00 PM
To: STIC-Biotech/ChemLib
Cc: Zeman, Mary
Subject: FW: Interference search 08/836075

RECEIVED
JAN 10 2006
STIC

Dear STIC,

Please search the multiple sequence search request set forth below.

Thanks,

Mike Pak

-----Original Message-----

From: Chan, Christina
Sent: Monday, January 09, 2006 6:06 PM
To: Zeman, Mary; Pak, Michael; STIC-Biotech/ChemLib
Subject: RE: Interference search 08/836075

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644

(571)-272-0841

Remsen, 3E89

-----Original Message-----

From: Zeman, Mary
Sent: Monday, January 09, 2006 3:14 PM
To: Chan, Christina
Subject: Interference search 08/836075

The following application has a multitude of claimed polynucleotide sequences which I was required to examine after petition of the restriction requirement. This case may be allowable, and I must now do an interference search of the claimed sequences. Please approve this lengthy search. Thanks, Mary Z

Please search the following SEQ ID NO: of 08/836075 in pending and uspatent files only.

SEQ ID NOs: 1, 3, 5, 7, 9, 11, 13, 15, 17,
19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 53, 55, 57, 59, 61, 63,
65, 67,

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 99, 101, 103 or 105 .

Mary K. Zeman
Primary Examiner, 1631
571-272-0723
Remsen 2D61
MAILBOX: REM 2C70
mary.zeman@uspto.gov

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 81.2663 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-1

Perfect score: 327
Sequence: 1 atgagcagcaatcctaacc.....ctcgcccaattgggcccc 327

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents_NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
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- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	315.4	96.5	327	US-08-836-075A-1	Sequence 1, Appli
2	296.2	90.6	573	US-08-194-949A-5	Sequence 5, Appli
3	289.8	88.6	573	US-08-290-665A-113	Sequence 113, App
4	289.8	88.6	573	US-08-290-665A-114	Sequence 114, App
5	289.8	88.6	573	PCT-US95-10398-113	Sequence 113, App
6	289.8	88.6	573	PCT-US95-10398-114	Sequence 114, App
7	288.2	88.1	573	US-08-290-665A-110	Sequence 110, App
8	288.2	88.1	573	PCT-US95-10398-110	Sequence 110, App
9	287.8	88.0	327	US-08-836-075A-5	Sequence 5, Appli
10	287.8	87.8	549	US-08-441-971-62	Sequence 62, Appli
11	287.2	87.8	549	US-08-221-653-62	Sequence 62, Appli
12	287.2	87.8	549	US-08-442-144A-62	Sequence 62, Appli
13	287.2	87.8	549	US-08-441-970-62	Sequence 62, Appli
14	287	87.8	9472	US-08-150-204F-96	Sequence 96, Appli
15	286.6	87.6	573	US-08-290-665A-111	Sequence 111, App
16	286.6	87.6	573	US-08-290-665A-115	Sequence 115, App
17	286.6	87.6	573	US-08-290-665A-117	Sequence 117, App
18	286.6	87.6	573	US-08-290-665A-118	Sequence 118, App
19	286.6	87.6	573	PCT-US95-10398-111	Sequence 111, App
20	286.6	87.6	573	PCT-US95-10398-115	Sequence 115, App
21	286.6	87.6	573	PCT-US95-10398-117	Sequence 117, App
22	286.6	87.6	573	PCT-US95-10398-118	Sequence 118, App
23	286.6	87.6	685	US-09-690-936-37	Sequence 37, Appli
24	286.6	87.6	686	US-08-988-321B-37	Sequence 37, Appli

25	286.6	87.6	686	US-08-397-220B-25	Sequence 25, Appli
26	286.6	87.6	686	US-08-650-093C-25	Sequence 25, Appli
27	286.6	87.6	1539	US-08-470-426B-17	Sequence 17, Appli
28	286.6	87.6	1863	US-08-470-426B-14	Sequence 14, Appli
29	286.6	87.6	9275	US-10-259-275-39	Sequence 39, Appli
30	285.6	87.3	713	US-09-763-836-1	Sequence 1, Appli
31	285.6	87.3	2433	US-08-612-973-49	Sequence 49, Appli
32	285.6	87.3	2433	US-08-927-597-49	Sequence 49, Appli
33	285.6	87.3	2433	US-08-928-757-49	Sequence 49, Appli
34	285	87.2	345	US-08-324-977-7	Sequence 7, Appli
35	285	87.2	345	US-08-384-616-7	Sequence 7, Appli
36	285	87.2	345	US-08-904-686A-7	Sequence 7, Appli
37	285	87.2	345	US-09-315-850-7	Sequence 7, Appli
38	285	87.2	573	US-08-290-665A-105	Sequence 105, App
39	285	87.2	573	US-08-290-665A-108	Sequence 108, App
40	285	87.2	573	US-08-290-665A-112	Sequence 112, App
41	285	87.2	573	US-08-290-665A-120	Sequence 120, App
42	285	87.2	573	US-08-290-665A-121	Sequence 121, App
43	285	87.2	573	US-08-290-665A-124	Sequence 124, App
44	285	87.2	573	PCT-US95-10398-105	Sequence 105, App
45	285	87.2	573	PCT-US95-10398-108	Sequence 108, App

ALIGNMENTS

RESULT 1
US-08-836-075A-1
Sequence 1, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-1

Query Match 96.5%; Score 315.4; DB 3; Length 327;

OY	ATGACAGCAATCTCTAAACCTCAAAAGAAAAACAAACGTTAACACCAACCGCGCCCTCAK	60
Db	1 ATGACAGCAATCTCTAAACCTCAAAAGAAAAACAAACGTTAACACCAACCGCGCCCTCAK	60
OY	61 GGGTNNNNNNNNCCGGGTGGCGGTCAATCTGTGTGTGAGATTACTCTGTTCGGCGCAG	120
Db	61 GGGTNNNNNNNNCCGGGTGGCGGTCAATCTGTGTGTGAGATTACTCTGTTCGGCGCAG	120
OY	121 GGCCTCAGANNAGGTGTGCGCGCATAGAGAAAGACTTCGAGCGGTCAACAACCTCGTGC	180
Db	121 GGCCTCAGANNAGGTGTGCGCGCATAGAGAAAGACTTCGAGCGGTCAACAACCTCGTGC	180
OY	181 AGGCGACAGCCTATCCCAAGCTGTGTGTGCGGTGAGGCGAAGTCTGTGGCTCAGCCCGGG	240
Db	181 AGGCGACAGCCTATCCCAAGGTGTGTGTGCGGTGAGGCGAAGTCTGTGGCTCAGCCCGGG	240
OY	241 TATCCTTGGCCCTCTATATGACAAATGAGGCGTGTGCGGTGGAGCGGAGTGGCTCTGTCCCC	300
Db	241 TATCCTTGGCCCTCTATATGACAAATGAGGCGTGTGCGGTGGAGCGGAGTGGCTCTGTCCCC	300
OY	301 CGCGGCTCTGTGGCCCAATTGGGGCCCC	327
Db	301 CGCGGCTCTGTGGCCCAATTGGGGCCCC	327

RESULT 2

```

US-09-194-949A-5
; Sequence 5, Application US/091949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

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Query Match	90.6%;	Score 296.2;	DB 3;	Length 573;
Best Local Similarity	92.0%;	Pred. No. 5.7e-74;		
Matches 301; Conservative	4;	Mismatches 22;	Indels 0;	Gaps 0;

QY 1 ATGAGAGACGAATCTTAACTCAAAAGAAAAACCAAAAGTAAGCAACAAAGCGCGCCCTCAK 60
Db 1 ATGAGACACGAATCTTAACTCAAGAAAAACCAAAAGTAAGCAACAAAGCGCGCCCAAG 60
QY 61 GGGGTNNNNNNNCGGGGTGGCGGTCAATCTTGTGTGAGTTTAACTGTGTCGCCGACAG 120
Db 61 GACGCTCAAGTCTCCGGGGCGGTGTGATCTGTGTGTGAGATTACTTGTGTCGCCACAG 120

QY	121	GGCCCCAGNNGGGTGTGGCGCGCATGAGAAAGATTCCAGAGCGGTACAACCTCGTGGC	180
QY <td>121</td> <td>GGCCCCAGGTGGGTGTGGCGCGCATGAGAAAGATTCCAGAGCGGTCCAACTCTGTGGA</td> <td>180</td>	121	GGCCCCAGGTGGGTGTGGCGCGCATGAGAAAGATTCCAGAGCGGTCCAACTCTGTGGA	180
Db <td>121</td> <td>GGCCCCAGGTGGGTGTGGCGCGCATGAGAAAGATTCCAGAGCGGTCCAACTCTGTGGA</td> <td>180</td>	121	GGCCCCAGGTGGGTGTGGCGCGCATGAGAAAGATTCCAGAGCGGTCCAACTCTGTGGA	180
QY <td>181</td> <td>AGCGCAGAGCTTATCCCCAGAGCTCGYCGGYCCGAGGCGAGAGTCTCGGCTCAAGCCCGGG</td> <td>240</td>	181	AGCGCAGAGCTTATCCCCAGAGCTCGYCGGYCCGAGGCGAGAGTCTCGGCTCAAGCCCGGG	240
Db <td>181</td> <td>AGCGCAGAGCTTATCCCCAGAGCTCGCGCGGCCGAGGCGAAGTCTCGGCGTCAAGCCCGGG</td> <td>240</td>	181	AGCGCAGAGCTTATCCCCAGAGCTCGCGCGGCCGAGGCGAAGTCTCGGCGTCAAGCCCGGG	240
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QY <td>301</td> <td>CGGCGCTCGGCGCAATTGGGGCCCC</td> <td>327</td>	301	CGGCGCTCGGCGCAATTGGGGCCCC	327
Db <td>301</td> <td>CGGCGCTCGGCGCAATTGGGGCCCC</td> <td>327</td>	301	CGGCGCTCGGCGCAATTGGGGCCCC	327

RESULT 3

US-08-230-665A-113
: Sequence 113, Application US/08290665A
: Patent No. 5882852
: GENERAL INFORMATION:
: APPLICANT: BUKH, J., MILLER, R.H. AM
: APPLICANT: PORCELL, R.H.
: TITLE OF INVENTION: NUCLEOTIDE AND D
: TITLE OF INVENTION: AMINO ACID SEQUE
: TITLE OF INVENTION: CORE GENES OF IS
: TITLE OF INVENTION: AND THE USE OF R
: TITLE OF INVENTION: SEQUENCES IN DIA
: NUMBER OF SEQUENCES: 263
: CORRESPONDENCE ADDRESS:
: ADDRESS: MORGAN & FINNEGAN
: STREET: 345 PARK AVENUE
: CITY: NEW YORK
: STATE: NEW YORK
: COUNTRY: USA
: ZIP: 10154
: COMPUTER READABLE FORM:
: MEDIUM TYPE: FLOPPY DISK
: COMPUTER: IBM PC COMPATIBLE
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: WORDPERFECT 5.1
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/290,665A
: FILING DATE: 15-AUG-1994
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: RICHARD W. BORK
: REGISTRATION NUMBER: 36,459
: REFERENCE/DOCKET NUMBER: 2026-4116
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (212) 758-4800
: TELEFAX: (212) 751-6849
: TELETYPE: 421792
: INFORMATION FOR SEQ ID NO: 113:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 573 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: ORIGINAL SOURCE:
: ORGANISM: homosapiens
: INDIVIDUAL ISOLATE: P10
US-08-290-665A-113

Query Match	88.6%;	Score 289.8;	DB 2;	Length 573;
Best Local Similarity	90.8%;	Pred. No. 3.6e-72;		
Matches 297;	Conservative 4;	Mismatches 26;	Indels 0;	Gaps 0;

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DB      1 ATGAGCAGGAATCTTAAACTCAAGAAAACCAAACGTAAACCAACCGCGCCACAG 600
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QY	121	GGCCCCAGANNGGGTGTGTCGCGCGACTAGAAAGACTTCCGAGCGGTCAACAACCTGTGTGC	180
Db	121	GGCCCCAGATTGGGTGTGTCGCGCGACTAGAAAGACTTCCGAGCGGTGTGCAACTCGTGA	180
QY	181	AGGCGACAGCCATATCCCCAAGGCTGTCGGGTCCGAGAGGCAAGGTCTGGGGCTAGGCCCGG	240
Db	181	AGGCGACAACTATATCCCCAAGGCTGCGCGGCCCGAGAGGCAAGGCTCTGGGGCTAGGCCCG	240
QY	241	TATCTTGGCCCCCTTATGGCAATGAGGGCTGTGGGTGGGCGGGAGTGTCTCTGTCCCC	300
Db	241	TACCTTGGCCCCCTTATGGCAATGAGGGCTGTGGGTGGGCAAGATGTCTCTGTACCC	300
QY	301	CGGGGCTCTGGGCGCAATGGGGCCCC	327
Db	301	CGTGGCTCTGGGCTTATGGGGCCCC	327

RESULT 4
US-08-290-665A-114
; Sequence 114, Application US/08290665A
; Patent No. 8000853

APPLICANT: BURKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 114:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: Homosapiens
 INDIVIDUAL ISOLATE: DK1

Query Match	88.6%;	Score 289.8;	DB 2;	Length 573;
Best Local Similarity	90.8%;	Pred. No. 3.6e-72;		
Matches 297; Conservative	4;	Mismatches 26;	Indels 0;	Gaps 0;

QY	ATAGAGCAAAATCTTAAACCTCAAGAAAAACAAACGTAAACCAACCGCGGCTTCAK	60
Db	1 ATAGAGCAAGAAATCTTAAACCTCAAGAAAAACAAACGTAAACCAACCGCGGCTTCAAG	60
QY	GGAGGTNNNNNNCCGGGTGGCGGTCAGATCGTGGTGGAGTTTACTCTGTTGCCGCGAGG	120
	:	
Db	61 GAGCTCAAGTTCCTCCGGGCGGTGGTCAAGATCGTGGTGGAGTTTACTCTGTTGCCGCGAGG	120
QY	GGCCCCAGANNAGGTGTGTGCGCGCACTAGAAAGACTTCCAGCGGTCAACAACCTCGTGC	180
Db	121 GGCCCCAGGTGTGGGTGTGTGCGCGCACTAGAAAGACTTCCAGCGGTCAACAACCTCGTGA	180
QY	AGGCGCAAGCTTATCCCCAAGGCTGTGCGGTCCGAGGCGAAGTCTTGGGCTCAAGCTCCGGG	240
Db	181 AGGCGCAAGCTTATCCCCAAGGCTGTGCGGTCCGAGGCGAAGTCTTGGGCTCAAGCTCCGGG	240
QY	TATCTTGGGCCCTCTATATGGCAATGAGGGCTGGCGGGTGGGCGGGNTGGACTCTGTCCCCC	300
Db	241 TATCTTGGGCCCTCTATATGGCAATGAGGGCTGGCGGGTGGGCGGGNTGGACTCTGTCACCC	300
QY	CGCGGCTCTCGGCGCAATGTGGGCGCC	327
Db	301 CGCGGCTCTCGGCGCAATGTGGGCGCC	327
Db	301 CGCGGCTCTCGGCGCAATGTGGGCGCC	327

RESULT 5
PCT-US95-10398-113
Continued on DC/MP0010398-113

APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PORCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
APPLICATION DATA:
PRIOR APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 113:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

Query Match	88.6%;	Score 289.8;	DB 2;	Length 573;
Best Local Similarity	90.8%;	Pred. No. 3.6e-72;		
Matches 297;	Conservative	4;	Mismatches 26;	Indels 0;
				Gaps 0;

TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: P10
PCT-US95-10398-113

Query Match 88.6%; Score 289.8; DB 6; Length 573;
Best Local Similarity 90.8%; Pred. No. 3.6e-72;
Matches 297; Conservative 4; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACTCAAGAAAAAACAACGTAAACCAACCGCCCTCAK 60
DB 1 ATGAGCAGCATCTTAACTCAAGAAAAAACAACGTAAACCAACCGCCCTCAK 60
QY 61 GAGCTCAAGTTCCCGGGGGGTGTGATCGTGTGAGTTAAGTTGCGCGGAGG 120
DB 61 GAGCTCAAGTTCCCGGGGGGTGTGATCGTGTGAGTTAAGTTGCGCGGAGG 120
QY 121 GAGCCCAAGNNGGGTGTGCGCGGAGCTAGAGAGCTTCCGAGCGGTCAACCTGTGGC 180
DB 121 GAGCCCAAGTTGGGTGTGCGCGGAGCTAGAGAGCTTCCGAGCGGTCAACCTGTGGG 180
QY 181 AGGCGACAGCCTATCTCCCAAGGCTGTGTCGATCGGAGGAGGCTCTGGGCTCAGCCGGG 240
DB 181 AGGCGACAGCCTATCTCCCAAGGCTGTGTCGATCGGAGGAGGCTCTGGGCTCAGCCGGG 240
QY 241 TATCTTGGCCCTCTATGGAATGAGGAGGCTGCGGGTGGGAGNTGGCTCTGTCCGCC 300
DB 241 TACCTTGGCCCTCTATGGAATGAGGAGGCTGCGGGTGGGAGNTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
DB 301 CGTGGCTCTCGGCCCTAGTTGGGGCCCC 327

RESULT 6
PCT-US95-10398-114
Sequence 114, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290,665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 114:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: DK1
PCT-US95-10398-114

Query Match 88.6%; Score 289.8; DB 6; Length 573;
Best Local Similarity 90.8%; Pred. No. 3.6e-72;
Matches 297; Conservative 4; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACTCAAGAAAAAACAACGTAAACCAACCGCCCTCAK 60
DB 1 ATGAGCAGCATCTTAACTCAAGAAAAAACAACGTAAACCAACCGCCCTCAK 60
QY 61 GAGCTCAAGTTCCCGGGGGGTGTGATCGTGTGAGTTAAGTTGCGCGGAGG 120
DB 61 GAGCTCAAGTTCCCGGGGGGTGTGATCGTGTGAGTTAAGTTGCGCGGAGG 120
QY 121 GAGCCCAAGNNGGGTGTGCGCGGAGCTAGAGAGCTTCCGAGCGGTCAACCTGTGGC 180
DB 121 GAGCCCAAGTTGGGTGTGCGCGGAGCTAGAGAGCTTCCGAGCGGTCAACCTGTGGG 180
QY 181 AGGCGACAGCCTATCTCCCAAGGCTGTGTCGATCGGAGGAGGCTCTGGGCTCAGCCGGG 240
DB 181 AGGCGACAGCCTATCTCCCAAGGCTGTGTCGATCGGAGGAGGCTCTGGGCTCAGCCGGG 240
QY 241 TATCTTGGCCCTCTATGGAATGAGGAGGCTGCGGGTGGGAGNTGGCTCTGTCCGCC 300
DB 241 TACCTTGGCCCTCTATGGAATGAGGAGGCTGCGGGTGGGAGNTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCTAGTTGGGGCCCC 327

RESULT 7
US-08-290-665A-110
Sequence 110, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435

COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-5

Query Match 88.0%; Score 287.8; DB 3; Length 327;
Best Local Similarity 90.5%; Pred. No. 1.1e-71;
Matches 296; Conservative 4; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCCTTAACCTCAAGAAACCAACGTAACACCAACCGCGCCCTCAK 60
DB 1 ATGAGCAGCAATCCTTAACCTCAAGAAACCAACGTAACACCAACCGCGCCACAG 60
QY 61 GSGGTNNNNNNCCGGGTGCGCGTCAATCGTTGTGAGTTTACCTGTTGCCGCGAG 120
DB 61 GACGTCAAGNTCCGGGTGTGTGTGATCGATCGTTGTGAGTTTACCTGTTGCCGCGAG 120
QY 121 GGGCCAGAGNNGGTGTGCGCGCACTAGAAAGACTTCCAGCGGTCAACCTGTGTGC 180
DB 121 GGGCCAGAGTTGGGTGTGCGCGCACTAGAAAGACTTCCAGCGGTGTGTGTGAC 180
QY 181 AGGGAAGAGCTATCCCAAGGCTGCGGCGCAAGGAGGCTCTGGGCTCAGCGCGAG 240
DB 181 AGGGAAGAGCTATCTTAAGGCTGCGGCGCAAGGAGGCTCTGGGCTCAGCGCGAG 240
QY 241 TATCTTGGCCCTCTATAGCAATAGAGGCTGCGGCTGCGGAGTGTCTCTGTCCCC 300
DB 241 CATCTTGGCCCTCTATAGCAATAGAGGCTGCGGAGTGTGTGTGTCTCTGTCTCC 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327

RESULT 10
US-08-441-971-62
; Sequence 62, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: spl1
US-08-441-971-62

Query Match 87.8%; Score 287.2; DB 3; Length 549;
Best Local Similarity 90.5%; Pred. No. 1.9e-71;
Matches 295; Conservative 4; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCCTTAACCTCAAGAAACCAAGTAACCAACCGCGCCCTCAK 60
DB 1 ATGAGCAGCAATCCTTAACCTCAAGAAACCAAGTAACCAACCGCGCCACAG 60
QY 61 GSGGTNNNNNNCCGGGTGCGCGTCAATCGTTGTGAGTTTACCTGTTGCCGCGAG 120
DB 61 GACGTCAAGTCCGGGCGGTGTGTGATCGATCGTTGTGAGTTTACCTGTTGCCGCGAG 120
QY 121 GGGCCAGAGNNGGTGTGCGCGCACTAGAAAGACTTCCAGCGGTCAACCTGTGTGC 180
DB 121 GGGCCAGAGTTGGGTGTGCGCGCACTAGAAAGACTTCCAGCGGTGTGTGTGGA 180
QY 181 AGGGAAGAGCTATCCCAAGGCTGCGGCGCAAGGAGGCTCTGGGCTCAGCGCGAG 240
DB 181 AGGGAAGAGCTATCTTAAGGCTGCGGCGCAAGGAGGCTCTGGGCTCAGCGCGAG 240
QY 241 TATCTTGGCCCTCTATAGCAATAGAGGCTGCGGCTGCGGAGTGTCTCTGTCCCC 300
DB 241 TATCTTGGCCCTCTATAGCAATAGAGGCTGCGGAGTGTGTGTGTCTCTGTCTCC 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 326
DB 301 CGCGGCTCTCGGCTTACGCTGGGGCCCC 326

RESULT 11
US-08-221-653-62
; Sequence 62, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: sp1
US-08-221-653-62

Query Match 87.8%; Score 287.2; DB 3; Length 549;
Best Local Similarity 90.5%; Pred. No. 1.9e-71;
Matches 295; Conservative 4; Mismatches 27; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAACGTAACCCGCCCTTCAK 60
DB 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAACGTAACCCGCCCTTCAK 60
QY 61 GGGGNNNNNNCCGGGTGGCGGTGAGATCGTTGGTGAAGTTTACCTGTGCGCGCAGG 120
DB 61 GAGGTCAAGTTCCTCCGGGCGGTGGTCAATCGTTGGTGAAGTTTACCTGTGCGCGCAGG 120
QY 121 GGGCCAGAGNNGGGTGTGCGCGGCACTTGAAGAACTTCCGAGCGGTCCCAACTGTGTGA 180
DB 121 GGGCCAGAGTGTGGGTGTGCGCGGCACTTGAAGAACTTCCGAGCGGTCCCAACTGTGTGA 180
QY 181 AGGGAGCAGCTTATCCCAAGGCTGCGGTCCGAGGGCAGAGCTTGGGCTCAAGCCGAG 240
DB 181 AGGGAGCAGCTTATCCCAAGGCTGCGGTCCGAGGGCAGAGCTTGGGCTCAAGCCGAG 240
QY 241 TATCTTGGCCCTTATGCAATGAGGGCTGCGGGTGGCGGNTGCTCTGTCCGCC 300
DB 241 TATCTTGGCCCTTATGCAATGAGGGCTGCGGGTGGCGGNTGCTCTGTCCGCC 300
QY 301 GCGGCTCTGCGCCCAATGGGAGCC 326
DB 301 GCGGCTCTGCGCCCAATGGGAGCC 326

RESULT 12
US-08-442-144A-62
Sequence 62, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: sp1
US-08-442-144A-62

Query Match 87.8%; Score 287.2; DB 3; Length 549;
Best Local Similarity 90.5%; Pred. No. 1.9e-71;
Matches 295; Conservative 4; Mismatches 27; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAACGTAACCCGCCCTTCAK 60
DB 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAACGTAACCCGCCCTTCAK 60
QY 61 GGGGNNNNNNCCGGGTGGCGGTGAGATCGTTGGTGAAGTTTACCTGTGCGCGCAGG 120
DB 61 GAGGTCAAGTTCCTCCGGGCGGTGGTCAATCGTTGGTGAAGTTTACCTGTGCGCGCAGG 120
QY 121 GGGCCAGAGNNGGGTGTGCGCGGCACTTGAAGAACTTCCGAGCGGTCCCAACTGTGTGA 180
DB 121 GGGCCAGAGTGTGGGTGTGCGCGGCACTTGAAGAACTTCCGAGCGGTCCCAACTGTGTGA 180
QY 181 AGGGAGCAGCTTATCCCAAGGCTGCGGTCCGAGGGCAGAGCTTGGGCTCAAGCCGAG 240
DB 181 AGGGAGCAGCTTATCCCAAGGCTGCGGTCCGAGGGCAGAGCTTGGGCTCAAGCCGAG 240

QY 1 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 60
Db 343 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 402
QY 61 GGGSTNNNNNNCCGGGTGGCGGTGAGTCTGTGTGAGTTTACTGTTCGCGGAGG 120
Db 403 GATATTAGTTCCTCCGGGCGGTGTGATCGTTGTGTGAGTTTACTGTTCGCGGAGG 462
QY 121 GGGCCCAAGNNGGGTGGCGGTGAGTCTGTGTGAGTTTACTGTTCGCGGAGG 180
Db 463 GGGCCCAAGTTGGGTGGCGGTGAGTCTGTGTGAGTTTACTGTTCGCGGAGG 522
QY 181 AGGCGACAGCTTATCCCAAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 240
Db 523 AGGCGACAGCTTATCCCAAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 582
QY 241 TATCTTGGCCCTCTATGGAATGAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 300
Db 583 TACCTTGGCCCTCTATGGAATGAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 642
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
Db 643 CGCGGCTCTCGGCCCAATTGGGGCCCC 669

RESULT 15
US-08-290-665A-111
Sequence 111, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DECODED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290, 665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 111:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: D1
US-08-290-665A-111

Query Match 87.6%; Score 286.6; DB 2; Length 573;
Best Local Similarity 90.2%; Pred. No. 2,9e-71;
Matches 295; Conservative 4; Mismatches 28; Indels 0; Gaps 0;
QY 1 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 60
Db 1 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 60
QY 61 GGGSTNNNNNNCCGGGTGGCGGTGAGTCTGTGTGAGTTTACTGTTCGCGGAGG 120
Db 61 GAGCTCAAGTTCCCGGGCGGTGTGAGTCTGTGTGAGTTTACTGTTCGCGGAGG 120
QY 121 GGGCCCAAGNNGGGTGGCGGTGAGTCTGTGTGAGTTTACTGTTCGCGGAGG 180
Db 121 GGGCCCAAGTTGGGTGGCGGTGAGTCTGTGTGAGTTTACTGTTCGCGGAGG 180
QY 181 AGGCGACAGCTTATCCCAAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 240
Db 181 AGGCGACAGCTTATCCCAAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 240
QY 241 TATCTTGGCCCTCTATGGAATGAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 300
Db 241 TACCTTGGCCCTCTATGGAATGAGGCTGCGGAGGCGAGGCTCTGAGCCGCGG 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
Db 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327

Search completed: January 11, 2006, 04:37:36
Job time: 82.2663 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-3
Perfect score: 447
Sequence: 1 gacgcgcgtgacctgcaac.....aggagtcacactgctcaac 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backflle1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	443.4	99.2	447	3	US-08-836-075A-3
2	372.6	83.4	447	3	US-08-836-075A-7
3	321.8	72.0	795	3	US-08-612-973-5
4	321.8	72.0	795	3	US-08-927-597-5
5	321.8	72.0	795	3	US-08-928-757-5
6	321.8	72.0	2082	3	US-08-612-973-47
7	321.8	72.0	2082	3	US-08-927-597-47
8	321.8	72.0	2082	3	US-08-928-757-47
9	321.8	72.0	2433	3	US-08-612-973-49
10	321.8	72.0	2433	3	US-08-927-597-49
11	321.8	72.0	2433	3	US-08-928-757-49
12	320.2	71.6	501	2	US-08-483-695-30
13	320.2	71.6	501	2	US-07-965-285-30
14	320.2	71.6	501	2	US-08-487-231-30
15	320.2	71.6	501	3	US-09-201-912-30
16	320.2	71.6	1539	2	US-08-470-426B-17
17	320.2	71.6	1863	2	US-08-470-426B-14
18	318.6	71.3	633	3	US-08-612-973-7
19	318.6	71.3	633	3	US-08-927-597-7
20	318.6	71.3	633	3	US-08-928-757-7
21	317	70.9	636	3	US-08-612-973-13
22	317	70.9	636	3	US-08-927-597-13
23	317	70.9	636	3	US-08-928-757-13
24	310.6	69.5	742	2	US-08-081-072-18

25	310.6	69.5	742	2	US-08-449-093A-18	Sequence 18, Appl
26	310.6	69.5	932	2	US-08-081-072-15	Sequence 15, Appl
27	310.6	69.5	932	2	US-08-449-093A-15	Sequence 15, Appl
28	310.6	69.5	9472	3	US-08-150-204E-96	Sequence 96, Appl
29	310.6	69.5	9595	3	US-09-014-416-4	Sequence 4, Appl1
30	310.6	69.5	9595	3	US-09-014-416-6	Sequence 6, Appl1
31	309.6	69.3	11076	3	US-09-539-601-1	Sequence 1, Appl1
32	309.6	69.3	11076	3	US-09-539-601-19	Sequence 19, Appl
33	309.6	69.3	11076	3	US-09-539-601-25	Sequence 25, Appl
34	309.6	69.3	11076	3	US-09-539-601-31	Sequence 31, Appl
35	309	69.1	501	2	US-08-483-695-28	Sequence 28, Appl
36	309	69.1	501	2	US-07-965-285-28	Sequence 28, Appl
37	309	69.1	501	2	US-08-487-231-28	Sequence 28, Appl
38	309	69.1	501	3	US-09-201-912-28	Sequence 28, Appl
39	307.4	68.8	1037	2	US-08-462-195-1	Sequence 1, Appl1
40	307.4	68.8	1037	2	US-08-636-883-1	Sequence 1, Appl1
41	307.4	68.8	1037	3	US-09-127-829-1	Sequence 1, Appl1
42	307.4	68.8	9275	3	US-10-259-275-39	Sequence 39, Appl
43	305.8	68.4	2116	3	US-08-191-160-21	Sequence 21, Appl
44	297.8	66.6	1037	2	US-08-462-195-3	Sequence 3, Appl1
45	297.8	66.6	1037	2	US-08-636-883-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1
US-08-836-075A-3
Sequence 3, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MARTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-3

Query Match	99.2%;	Score 443.4;	DB 3;	Length 447;
Best Local Similarity	100.0%;	Pred. No. 1.1e-130;		
Matches 447;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

OY	1	SACGGCGTGAACTATGCAACAGGGAACCTTGCCGGTTGCTCTTCATATCTCCCTTG	60
Db	1	GACGGCGTGAACTATGSCAACAGGGAACCTTGCCCGTTGCTCTTTCATATCTCCCTTG	60
OY	61	GCTTGTCTGTCCCTGCTTGAAGGTTCCACACCCGCTACGAGGTGGCAACGATCCGG	120
Db	61	GCTTGTCTGTCCCTGCTTGAAGGTTCCACACCCGCTACGAGGTGGCAACGATCCGG	120
OY	121	GGTATATATGTATACCAAGACTGTTCCACTCGAGATCATCTATAGATGGAAGGATATG	180
Db	121	GGTATATATGTATACCAAGACTGTTCCACTCGAGATCATCTATAGATGGAAGGATATG	180
OY	181	ATCATGACTACTCCCAAGGATGCGTCCGCTCGTTCGGAGGATATACCATCTCCGCTCTG	240
Db	181	ATCATGACTACTCCCAAGGATGCGTCCGCTCGTTCGGAGGATATACCATCTCCGCTCTG	240
OY	241	ATGGCGCTACCCGCCAGCTTGCGGTCAAAAYATGATGTGTCCCATCTCGGCATCCGA	300
Db	241	ATGGCGCTACCCGCCAGCTTGCGGTCAAAAYATGATGTGTCCCATCTCGGCATCCGA	300
OY	301	CGTCAAGTGCATCTGTGTTGGGGGNNCCAGTTCGTTCGCGTATATGACGTGGGAGAC	360
Db	301	CGTCAAGTGCATCTGTGTTGGGGGNNCCAGTTCGTTCGCGTATATGACGTGGGAGAC	360
OY	361	CTTTGCGGGTCTGTCTTCTTCGCGTGACAGTATTCACCTTTTCAACCCGCATGACCAT	420
Db	361	CTTTGCGGGTCTGTCTTCTTCGCGTGACAGTATTCACCTTTTCAACCCGCATGACCAT	420
OY	421	ACAAAGCAGAGTGCACACTGCTCAATC 447	
Db	421	ACAAAGCAGAGTGCACACTGCTCAATC 447	

RESULT 2
 US-08-836-075A-7
 Sequence 7, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:
 APPLICANT: MAERTENS, GEERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 TITLE OF INVENTION: AGENTS
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995
 PRIOR APPLICATION DATA: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:

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: APPLICATION NUMBER: EP 95870076.7
:
: FILING DATE: 28 Jun 1995
:
: ATTORNEY/AGENT INFORMATION:
:
:   NAME: KAMMERER, PATRICIA A.
:   REGISTRATION NUMBER: 29,775
:   REFERENCE/DOCKET NUMBER: INNS:004
:
: INFORMATION FOR SEQ ID NO: 7:
:
:   SEQUENCE CHARACTERISTICS:
:
:     LENGTH: 447 base pairs
:     TYPE: nucleic acid
:     STRANDEDNESS: single
:     TOPOLOGY: linear
:
:   MOLECULE TYPE: cDNA
:   HYPOTHETICAL: NO
:   ANTI-SENSE: NO
:
: US-08-836-075A-7

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Query Match	83.4%;	Score 372.6;	DB 3;	Length 447;
Best Local Similarity	88.6%;	Pred. No. 3.2e-108;		
Matches 396;	Conservative	5;	Mismatches 46;	Indels 0; Gaps 0;

QY	1	GACGGCGGAACTATGCAACAGGGAACTGGCCGGTTGCTCTTTCTATCTATCTTCCTTGG	60
Db	1	GACGGCGGAACTATGCAACAGGGAACTTTGGCTGGTTGCTCTTTCTATCTATCTTCCTTTA	60
QY	61	GCTTTGCTGTCCCTGTTTGAAGGTTTCAA	120
Db	61	GCTTTTCTGTCCCTGTTTGAACGGTTTCAA	120
QY	121	GTGATATCATGTACCAAGCATGTTTCCAACTCGAGCATCATCTATGAAATGGAAGGTTATG	180
Db	121	GTATATCATCTCACCAATGACCTGTTCCAACTCGAGCATCATCTATGAAATGAGTGTATG	180
QY	181	ATCATATGCACTACCCAGGGTGGCGTCCGTTCGGAGAGATTAACATCTCCGCTGTGG	240
Db	181	ATCTTTCAGCGCCCAAGGGTGTGTGTCCTCGGTGGGAGAACAACTCTTCCTGTTGGTGG	240
QY	241	ATGCGCGTCAACCCCAAGCTTGGCGGTCAAAAAGCTAGTGTCCCATCTRCGGCAATCCGA	300
Db	241	ATGCRCTACACCCCAAGCTTGGCGGTCAAAAAGCTAATGTCCCTACATCGCGCAATCCGA	300
QY	301	CGTACAGTCGACTTGTCTGTTGGGGGANNCAAGTCTGTTCGGATGATGATCGTGGGAGAC	360
Db	301	CGCATGTTCGACTTGTGTGTGGGAGACAGCCGGGTTTGGTTCGGCTATGTATCGTGGGAGAC	360
QY	361	CTTTCGGGGTCTGTCTTCTCTCGCTGAGCGAGTATTCACCTTTTCAACCCCGCATGCAAT	420
Db	361	CTTCGCGGATCGTCTTCTCTTGTGGCGCAGGTATTCACCTTTTCAACCCCGCTTGAACAT	420
QY	421	ACAAACGACGAGTGCATCTGCTCAATC	447
Db	421	ACAAACACGAGTGCATCTGCTCAATC	447

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/ RESULT 3
/ US-08-612-973-5
/ Sequence 5, Application US/08612973
/ Patent No. 6150134
/
/ GENERAL INFORMATION:
/
/ APPLICANT: MAERTENS, GEBERT
/ APPLICANT: BOSMAN, FONS
/ APPLICANT: DE MARTYNOFF, GUY
/ APPLICANT: BUYSE, MAIR-ANGE
/
/ TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
/
/ TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
/
/ NUMBER OF SEQUENCES: 111
/
/ CORRESPONDENCE ADDRESS:
/
/ ADDRESSEE: NIXON & VANDERHYE P. C.
/
/ STREET: 1100 NORTH GLEBE ROAD
/
/ CITY: ARLINGTON
/
/ STATE: VIRGINIA
/
/ COUNTRY: U.S.A.
/
/ ZIP: 22201-4714
/

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/612,973
FILING DATE: 11-MAR-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 795 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..792
NAME/KEY: mat peptide
LOCATION: 1..789
US-08-612-973-5

Query Match 72.0%; Score 321.8; DB 3; Length 795;
Best Local Similarity 81.7%; Pred. No. 5.5e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

1 GAGGCGGTGAACATGACAGGAACTTGGCCGGTTCCTTCTATCTTCTCTG 60
127 GACGGCGTGAACATGACAGGAACTTGGCCGGTTCCTTCTATCTTCTCTG 186
61 GCTTTGCTGCTCTGACGGTTCCAAACGCTGACGAGTGGCGAAGCATCCG 120
187 GCTTTGCTGCTCTGACGGTTCCAAACGCTGACGAGTGGCGAAGCATCCG 246
121 GTGTATCATGTACCAAGCATGTTCCAACTGAGCATCATATGAGATGACG 180
247 ATGTACCATGTACCAAGCATGTTCCAACTGAGCATCATATGAGATGACG 306
181 ATCATGACATGACAGGAGTGGCTGCGCTGGGAGATACATCTCCGCTG 240
307 ATCATGACATGACAGGAGTGGCTGCGCTGGGAGATACATCTCCGCTG 366
241 ATGCGGCTACCCCGACGCTTGGCGGATCAAAAAGCTAGTGTCCCATCT 300
367 GTACGCTACCCCGACGCTTGGCGGATCAAAAAGCTAGTGTCCCATCT 426
301 GGTACGCTACCCCGACGCTTGGCGGATCAAAAAGCTAGTGTCCCATCT 360
427 CGCACGCTACCCCGACGCTTGGCGGATCAAAAAGCTAGTGTCCCATCT 486
361 CTTTGGCGGTGCTTCTCTGCTGAGCGCAAGTATTCATCTTTTCACCCC 420
487 CTCTGCGATCTGCTTCTCTGCTGAGCGCAAGTATTCATCTTTTCACCCC 546
421 ACAAGCGAGAGTCAATGCTCAATC 447
547 ACGGTGACGAGTCAATGCTCAATC 573

RESULT 4
US-08-927-597-5
Sequence 5, Application US/08927597

Patent No. 6245503
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: BOSMAN, FONS
APPLICANT: DE MARTYNOFF, GUY
APPLICANT: BUYSSE, MARIE-ANGE
TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHART P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/927,597
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/612,973
FILING DATE: 11-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 795 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..792
NAME/KEY: mat peptide
LOCATION: 1..789
US-08-927-597-5

Query Match 72.0%; Score 321.8; DB 3; Length 795;
Best Local Similarity 81.7%; Pred. No. 5.5e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

1 GAGGCGGTGAACATGACAGGAACTTGGCCGGTTCCTTCTATCTTCTCTG 60
127 GACGGCGTGAACATGACAGGAACTTGGCCGGTTCCTTCTATCTTCTCTG 186
61 GCTTTGCTGCTCTGACGGTTCCAAACGCTGACGAGTGGCGAAGCATCCG 120
187 GCTTTGCTGCTCTGACGGTTCCAAACGCTGACGAGTGGCGAAGCATCCG 246
121 GTGTATCATGTACCAAGCATGTTCCAACTGAGCATCATATGAGATGACG 180
247 ATGTACCATGTACCAAGCATGTTCCAACTGAGCATCATATGAGATGACG 306
181 ATCATGACATGACAGGAGTGGCTGCGCTGGGAGATACATCTCCGCTG 240
307 ATCATGACATGACAGGAGTGGCTGCGCTGGGAGATACATCTCCGCTG 366
241 ATGCGGCTACCCCGACGCTTGGCGGATCAAAAAGCTAGTGTCCCATCT 300

Db 367 GTAGCGCTACCCCGACGCTGCACTAGAAACGCGACGTCGCCACACGACATACGA 426
Qy 301 CGTACGCTACCTGCTGTTGGGGGANNCCAGTTCCTGTTCCGTATGATGAGTGGGAGAC 360
Db 427 CGCCACGTCGATTGCTGTTGGGGCGGCTGCTTCTGTTCCGTATGATGAGTGGGAGAC 486
Qy 361 CTTTGGGGGTCTGTTCTTCCCTGCTGAGCGAGCTATTCACTTTTCACCCCGCATCACCAT 420
Db 487 CTCGCGGATGTCCTTCTGCTGCTCCGAGCTGTTACCATCTCGCTCGCGGAGATGAG 546
Qy 421 ACAACGAGAGTGCAACTGCTCAATC 447
Db 547 ACGGTGACGAGCTGCAATTGCTCAATC 573
RESULT 5
US-08-928-757-5
; Sequence 5, Application US/08928757
; Patent No. 6890737
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,757
; FILING DATE: 12-Sep-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4100
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 795 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..792
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..789
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-08-928-757-5
Query Match 72.0%; Score 321.8; DB 3; Length 795;

Best Local Similarity 81.7%; Pred. No. 5,5e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;
Qy 1 GAAGGGCTGAACATATGACACAGGAACTTGGCCGGTTCCTTTCTATCTTCCTTGG 60
Db 127 GAGGGGGTGAACTATGACAAAGGAAATTTGGCCGGTTCCTTTCTATCTTCCTTGG 186
Qy 61 GCTTTGGCTGCTGCTGTTGACGCTTCCAAACACACGCTCACAGAGGTGGCAACGATCGGG 120
Db 187 GCTTTGGCTGCTGCTGTTGACGCTTCCAAACACACGCTTCCGCTTATGAAATGGCAACGATCGGG 246
Qy 121 GTATATCATGTCAACCAAGCATGTTTCAACTGAGACATATATAGATGACGCTTATG 180
Db 247 ATGATCATGTCAACCAAGCATGTTTCAACTGAGACATATATAGATGACGAGCATG 306
Qy 181 ATCATGACATACCCAGAGGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 307 ATCATGACATACCCAGAGGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 386
Qy 241 ATGAGCGTCAACCCCAAGCTTGGCGGTCAAAAGCTAGTGTCCCACTRCGCAATCCGA 300
Db 367 GTAGCGCTACCCCGACGCTGCGACGCTAGGAAACGACGCTCCCAACGACATACGA 426
Qy 301 CGTACGCTGACTGCTGTTGTTGGGGANNCCAGTTCCTGTTCCGTATGATGAGTGGGAGAC 360
Db 427 CGCCACGTCGATTGCTGTTGGGGCGGCTGCTTCTGTTCCGTATGATGAGTGGGAGAC 486
Qy 361 CTTTGGGGGTCTGTTCTTCCCTGCTGAGCGAGCTATTCACTTTTCACCCCGCATCACCAT 420
Db 487 CTCGCGGATGTCCTTCTGCTGCTCCGAGCTGTTACCATCTCGCTCGCGGAGATGAG 546
Qy 421 ACAACGAGAGTGCAACTGCTCAATC 447
Db 547 ACGGTGACGAGCTGCAATTGCTCAATC 573
RESULT 6
US-08-612-973-47
; Sequence 47, Application US/08612973
; Patent No. 6150134
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4100
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:

LENGTH: 2082 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..2079
 NAME/KEY: mat.peptide
 LOCATION: 1..2076
 US-08-612-973-47

Query Match 72.0%; Score 321.8; DB 3; Length 2082;
 Best Local Similarity 81.7%; Pred. No. 8.4e-92;
 Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGCGTGAATGACAGAGGAACTTGGCCGGTCTCTTCTATCTTCTCTG 60
 DB 127 GACGCGTGAATGACAGAGGAACTTGGCCGGTCTCTTCTATCTTCTCTG 186
 QY 61 GCTTGTCTGCTCTGCTTGAACGCTTCAACGAGGTGCGCAACGATCCGG 120
 DB 187 GCTTGTCTGCTCTGCTTGAACGCTTCAACGAGGTGCGCAACGATCCGG 246
 QY 121 GTGTATCATGTACCAAGATGTTTCACTGAGCATCTATGATGAGAGGATG 180
 DB 247 ATGTACCAATGTACCAAGATGTTTCACTGAGCATCTATGATGAGAGGATG 306
 QY 181 ATCATGACTTACCAAGGAGTGGTCCCTGCGTGGAGATACATCTCCGCTGG 240
 DB 307 ATCATGACTTACCAAGGAGTGGTCCCTGCGTGGAGATACATCTCCGCTGG 366
 QY 241 ATGCGCTCACCCCGCTTGGCGTCAAAAAGCTAGTGTCCCACTTCGCAATCG 300
 DB 367 ATGCGCTCACCCCGCTTGGCGTCAAAAAGCTAGTGTCCCACTTCGCAATCG 426
 QY 301 CGTACGCTGACCTGCTTGTGGGGGNNCCAGCTTCTGCTTCACTGATGATGAGGAG 360
 DB 427 CGTACGCTGACCTGCTTGTGGGGGNNCCAGCTTCTGCTTCACTGATGATGAGGAG 486
 QY 361 CTGTGGGGTCTGCTTCTGCTGAGGAGTATTCACCTTTCACCCCGGATGACCAT 420
 DB 487 CTGTGGGGTCTGCTTCTGCTGAGGAGTATTCACCTTTCACCCCGGATGACCAT 546
 QY 421 ACAAGCAGAGTGAATGCTCAATC 447
 DB 547 ACAAGCAGAGTGAATGCTCAATC 573

RESULT 7
 US-08-927-597-47
 ; Sequence 47, Application US/08927597
 ; Patent No. 6245503
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GERT
 ; APPLICANT: BOSMAN, FONS
 ; APPLICANT: DE MARTYNOFF, GUY
 ; APPLICANT: BUYSSE, MARIE-ANGE
 ; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 ; TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
 ; NUMBER OF SEQUENCES: 111
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: NIXON & VANDERHAYE P.C.
 ; STREET: 1100 NORTH GLEBE ROAD
 ; CITY: ARLINGTON
 ; STATE: VIRGINIA
 ; COUNTRY: U.S.A.
 ; ZIP: 22201-4714
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent-In Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/927,597
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/612,973
 FILING DATE: 11-MAR-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: BYRNE, THOMAS E.
 REGISTRATION NUMBER: 32,205
 REFERENCE/DOCKET NUMBER: 1487-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-4000
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 47:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2082 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..2079
 NAME/KEY: mat.peptide
 LOCATION: 1..2076
 US-08-927-597-47

Query Match 72.0%; Score 321.8; DB 3; Length 2082;
 Best Local Similarity 81.7%; Pred. No. 8.4e-92;
 Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGCGTGAATGACAGAGGAACTTGGCCGGTCTCTTCTATCTTCTCTG 60
 DB 127 GACGCGTGAATGACAGAGGAACTTGGCCGGTCTCTTCTATCTTCTCTG 186
 QY 61 GCTTGTCTGCTCTGCTTGAACGCTTCAACGAGGTGCGCAACGATCCGG 120
 DB 187 GCTTGTCTGCTCTGCTTGAACGCTTCAACGAGGTGCGCAACGATCCGG 246
 QY 121 GTGTATCATGTACCAAGATGTTTCACTGAGCATCTATGATGAGAGGATG 180
 DB 247 ATGTACCAATGTACCAAGATGTTTCACTGAGCATCTATGATGAGAGGATG 306
 QY 181 ATCATGACTTACCAAGGAGTGGTCCCTGCGTGGAGATACATCTCCGCTGG 240
 DB 307 ATCATGACTTACCAAGGAGTGGTCCCTGCGTGGAGATACATCTCCGCTGG 366
 QY 241 ATGCGCTCACCCCGCTTGGCGTCAAAAAGCTAGTGTCCCACTTCGCAATCG 300
 DB 367 ATGCGCTCACCCCGCTTGGCGTCAAAAAGCTAGTGTCCCACTTCGCAATCG 426
 QY 301 CGTACGCTGACCTGCTTGTGGGGGNNCCAGCTTCTGCTTCACTGATGATGAGGAG 360
 DB 427 CGTACGCTGACCTGCTTGTGGGGGNNCCAGCTTCTGCTTCACTGATGATGAGGAG 486
 QY 361 CTGTGGGGTCTGCTTCTGCTGAGGAGTATTCACCTTTCACCCCGGATGACCAT 420
 DB 487 CTGTGGGGTCTGCTTCTGCTGAGGAGTATTCACCTTTCACCCCGGATGACCAT 546
 QY 421 ACAAGCAGAGTGAATGCTCAATC 447
 DB 547 ACAAGCAGAGTGAATGCTCAATC 573

RESULT 8
 US-08-928-757-47


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QY 1 GACGCGTGAACATATGCAACAGGAACTTGCCCGTTGCTTCTCTATCTTCTCTTG 60
D 478 GACGCGTGAACATATGCAACAGGAACTTGCCCGTTGCTTCTCTATCTTCTCTTG 537
QY 61 GCTTGTCTGCTCTGCTGACGCTTCAACACACGCTTCAACAGGCTGCGCAATCCGGG 120
D 538 GCTTGTCTGCTCTGCTGACGCTTCAACACACGCTTCAACAGGCTGCGCAATCCGGG 597
QY 121 GTGATCATGTACCAACAGCTGTTCCAACTCGAGCAATCTTGTGATGAGAGGTATG 180
D 598 ATGATCAATGCAAGCAAGCACTGCTCAACATGATGATGAGAGGAGATG 657
QY 181 ATCATGCACTACCCAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
D 658 ATCATGCACTACCCAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 717
QY 241 ATGCGCTGCTACCCAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
D 718 GTAGCGCTACCCAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 777
QY 301 CGTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
D 778 CGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 837
QY 361 CTTTGGGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
D 838 CTCTGCGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897
QY 421 ACAACGAGAGTGAACATGCTCAATC 447
D 898 ACGGTGAGAGTGAACATGCTCAATC 924

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RESULT 10
US-08-927-597-49
; Sequence 49, Application us/08927597
; Patent No. 6245503
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: BOSMAN, FONS
; APPLICANT: DE MARTYNOFF, GUY
; APPLICANT: BUYSSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/927,597
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 49:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 2433 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; NAME/KEY: mat_peptide
; LOCATION: 1..2427
; US-08-927-597-49

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Query Match 72.0%; Score 321.8; DB 3; Length 2433;
Best Local Similarity 81.7%; Pred. No. 9.1e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;
QY 1 GACGCGTGAACATATGCAACAGGAACTTGCCCGTTGCTTCTCTATCTTCTCTTG 60
D 478 GACGCGTGAACATATGCAACAGGAACTTGCCCGTTGCTTCTCTATCTTCTCTTG 537
QY 61 GCTTGTCTGCTCTGCTGACGCTTCAACACACGCTTCAACAGGCTGCGCAATCCGGG 120
D 538 GCTTGTCTGCTCTGCTGACGCTTCAACACACGCTTCAACAGGCTGCGCAATCCGGG 597
QY 121 GTGATCATGTACCAACAGCTGTTCCAACTCGAGCAATCTTGTGATGAGAGGTATG 180
D 598 ATGATCAATGCAAGCAAGCACTGCTCAACATGATGATGAGAGGAGATG 657
QY 181 ATCATGCACTACCCAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
D 658 ATCATGCACTACCCAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 717
QY 241 ATGCGCTGCTACCCAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
D 718 CGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 837
QY 301 CGTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
D 778 CGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 837
QY 361 CTTTGGGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
D 838 CTCTGCGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897
QY 421 ACAACGAGAGTGAACATGCTCAATC 447
D 898 ACGGTGAGAGTGAACATGCTCAATC 924

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RESULT 11
US-08-928-757-49
; Sequence 49, Application us/08928757
; Patent No. 6890737
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: BOSMAN, FONS
; APPLICANT: DE MARTYNOFF, GUY
; APPLICANT: BUYSSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928,757
FILING DATE: 12-Sep-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/612,973
FILING DATE: 11-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 2433 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..2430
FEATURE:
NAME/KEY: mat peptide
LOCATION: 1..2427
SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-08-928-757-49

Query Match 72.0%; Score 321.8; DB 3; Length 2433;
Best Local Similarity 81.7%; Pred. No. 9.1e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGCGGTGAACATATGCAACAGGAACTTGGCCGGTTCCTTTCTATCTTCTCTTGG 60
DB 478 GACGCGGTGAACATATGCAACAGGAACTTGGCCGGTTCCTTTCTATCTTCTCTTGG 537
QY 61 GCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 538 GCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 597
QY 121 GTGTATCATGTACCAACAGCTGTTCCAACTGAGCATCATCTATGAGATGAGCGTATG 180
DB 598 ATGTACCATGTACCAACAGCTGTTCCAACTGAGCATCATCTATGAGATGAGCGTATG 657
QY 181 ATCATGCACTACCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 658 ATCATGCACTACCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 717
QY 241 ATGGCGCTACCCCGAGCTTGGCGGTCAAAAAGCTAGTATCCCATCGGCAATCCGA 300
DB 718 GTAGGCTACCCCGAGCTTGGCGGTCAAAAAGCTAGTATCCCATCGGCAATCCGA 777
QY 301 CGTACGCTGACTGCTTGTGTGGGGNNCCAGTTCCTGCTCCGATATGACGTGGGAGC 360
DB 778 CGCAGCTGACTGCTTGTGTGGGGNNCCAGTTCCTGCTCCGATATGACGTGGGAGC 837
QY 361 CTTTGGGGGTGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 838 CTTTGGGGGTGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897
QY 421 ACAAGCAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 447
DB 898 ACGGTGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 924

RESULT 12
US-08-483-695-30
Sequence 30, Application US/08/483695
Patent No. 5866139

GENERAL INFORMATION:
APPLICANT: Brecht, Christian
APPLICANT: Krensdorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
TITLE OF INVENTION: Applications
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSEE: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,695
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/965,285
FILING DATE: 18-MAR-1993
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: CDNA to genomic RNA
US-08-483-695-30

Query Match 71.6%; Score 320.2; DB 2; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;

QY 1 GACGCGGTGAACATATGCAACAGGAACTTGGCCGGTTCCTTTCTATCTTCTCTTGG 60
DB 9 GACGCGGTGAACATATGCAACAGGAACTTGGCCGGTTCCTTTCTATCTTCTCTTGG 68
QY 61 GCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 69 GCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 128
QY 121 GTGTATCATGTACCAACAGCTGTTCCAACTGAGCATCATCTATGAGATGAGCGTATG 180
DB 129 ATGTACCATGTACCAACAGCTGTTCCAACTGAGCATCATCTATGAGATGAGCGTATG 188
QY 181 ATCATGCACTACCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 189 ATCATGCACTACCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 248
QY 241 ATGGCGCTACCCCGAGCTTGGCGGTCAAAAAGCTAGTATCCCATCGGCAATCCGA 300

Db 249 GTACGCTCACTCCACGCTGCGGCCAGGAATGCCAGCGTCCCACTACGACATACGA 308
Qy 301 CGTCACGCTCACTGTTGTTGGGGNNCCAGTTTCTGTCGCGTATGATGAGGAGAC 360
Db 309 CGCACGCTCACTGTTGTTGGGGCGGCTGTTTCTGCTCCGTAATGATGAGGAGAT 368
Qy 361 CTTTGGGGTCTGTTCTGCTGCGCCAGCTATTCACCTTTTACCCCGCATCACCAT 420
Db 369 CTCTGGGATCTGTTTCTGTCCTCCAGCTGTTTACCTTCTGCGCTCGCGCATGAG 428
Qy 421 ACAACGAGAGTGAATGCTCAATC 447
Db 429 ACAGTCAAGACTGCAACTGCTCAATC 455

RESULT 13
US-07-965-285-30
Sequence 30, Application US/07965285
GENERAL INFORMATION:
PATENT NO. 5879904
APPLICANT: Brechot, Christian
APPLICANT: Kremendorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flinnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/965,285
FILING DATE: 18-MAR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
FAX: 202-408-4000
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cdna to genomic RNA
US-07-965-285-30

Query Match 71.6%; Score 320.2; DB 2; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;
Qy 1 GACGGCGGACTTGAACAAGGAACTGCGGCTGCTTCTGATCTGCTG 60
Db 9 GACGGCGGAACTGGAACAAGGAACTGCGGCTGCTTCTGATCTGCTG 68
Qy 61 GCTTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

Db 69 GCTTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 128
Qy 121 GTGATATATCAACCAAGCTGTTCAATGAGATATATATGATGAGACGATG 180
Db 129 ATATACCATGTACGAACGACTGCTCAACTGATGATGATGAGGAGGACATG 188
Qy 181 ATCATGACATACCAAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 189 ATCATGATATCTCCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 248
Qy 241 ATGGGCTCAACCCCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
Db 249 GTACGCTCACTCCACGCTGCGGCCAGGAATGCCAGCTCCCACTACGACATACGA 308
Qy 301 CGTCACGCTCACTGTTGTTGGGGNNCCAGTTTCTGTCGCGTATGATGAGGAGAC 360
Db 309 CGCACGCTCACTGTTGTTGGGGCGGCTGTTTCTGCTCCGTAATGATGAGGAGAT 368
Qy 361 CTTTGGGGTCTGTTCTGCTGCGCCAGCTATTCACCTTTTACCCCGCATCACCAT 420
Db 369 CTCTGGGATCTGTTTCTGTCCTCCAGCTGTTTACCTTCTGCGCTCGCGCATGAG 428
Qy 421 ACAACGAGAGTGAATGCTCAATC 447
Db 429 ACAGTCAAGACTGCAACTGCTCAATC 455

RESULT 14
US-08-487-231-30
Sequence 30, Application US/08487231
PATENT NO. 5919454
GENERAL INFORMATION:
APPLICANT: Brechot, Christian
APPLICANT: Kremendorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flinnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,231
FILING DATE: 07-JUNE-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/965,285
FILING DATE: 18-MAR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-02000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
FAX: 202-408-4000
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:

LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-08-487-231-30

Query Match 71.6%; Score 320.2; DB 2; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACCTATGCAACAGGAACTTGCCCGGTTGCTTTCTCTATCTTCTCTTG 60
DB 9 GACGGCGTGAACCTATGCAACAGGAACTTGCCCGGTTGCTTTCTCTATCTTCTCTTG 68
QY 61 GCTTTGCTGCTCTGTTGACCGTTTCAACAKACGCTTCAAGGTGCGCAACGATCCGGG 120
DB 69 GCTTTGCTGCTCTGTTGACCGATCCAGCTTCCGCTTATGAAAGTGCAGCAAGTGTCCGGG 128
QY 121 GTGATCATGTACCAACAGATGTTCACATCGAGCATCTATAGATGAGATGAGATG 180
DB 129 ATATACCATGTACCAACAGATGTTCACATCGATGTATGAGGAGCAAGCAATG 188
QY 181 ATCATGCACTACCAAGGAGTGGTCCCTGCGTGGAGATTAACCAATCTCCGCTGCTG 240
DB 189 ATCATGCACTACCCGGGTGGTGGCTGCGTGGAGGACAAAGCTCCGTTGCTGG 248
QY 241 ATGGCGCTACCCCAAGGCTTGGCGTCAAAAYGCTAGTGTCCCACTRCGGCAATCCGA 300
DB 249 GTACGCGTCACTCCAGCGCTGCGGCAAGATGCAAGCGTCCCACTACCACAATACGA 308
QY 301 CGTACCGTCACTGTTGTTGGGGGNNCAAGTTCGTTCCGATGATGATGAGGAGAC 360
DB 309 CGCACGTCGACTGCTGCTGTTGGGCGGCTGCTTCTGCTCGCTATGATGAGGAGAT 368
QY 361 CTTTGGCGGTCGTCCTTCTGCTGCTGCGCAAGCTATTCACCTTTTCAACCCCGCATC 420
DB 369 CTCGCGGATCTGTTTCTGCTGCTCCAGCTGTTTCACTTCTGCGCTGCGCGCATGAG 428
QY 421 ACAACGAGAGTGAAGTCTCAATC 447
DB 429 ACAGTGACGAGCTCAACTGCTCAATC 455

RESULT 15
US-09-201-912-30
Sequence 30, Application US/09201912
Patent No. 6210962
GENERAL INFORMATION:
APPLICANT: Brechot, Christian
APPLICANT: Kremendorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/201,912
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,285
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-09-201-912-30

Query Match 71.6%; Score 320.2; DB 3; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACCTATGCAACAGGAACTTGCCCGGTTGCTTTCTCTATCTTCTCTTG 60
DB 9 GACGGCGTGAACCTATGCAACAGGAACTTGCCCGGTTGCTTTCTCTATCTTCTCTTG 68
QY 61 GCTTTGCTGCTCTGTTGACCGTTTCAACAKACGCTTCAAGGTGCGCAACGATCCGGG 120
DB 69 GCTTTGCTGCTCTGTTGACCGATCCAGCTTCCGCTTATGAAAGTGCAGCAAGTGTCCGGG 128
QY 121 GTGATCATGTACCAACAGATGTTCACATCGAGCATCTATAGATGAGATGAGATG 180
DB 129 ATATACCATGTACCAACAGATGTTCACATCGATGTATGAGGAGCAAGCAATG 188
QY 181 ATCATGCACTACCAAGGAGTGGTCCCTGCGTGGAGATTAACCAATCTCCGCTGCTG 240
DB 189 ATCATGCACTACCCGGGTGGTGGCTGCGTGGAGGACAAAGCTCCGTTGCTGG 248
QY 241 ATGGCGCTACCCCAAGGCTTGGCGTCAAAAYGCTAGTGTCCCACTRCGGCAATCCGA 300
DB 249 GTACGCGTCACTCCAGCGCTGCGGCAAGATGCAAGCGTCCCACTACCACAATACGA 308
QY 301 CGTACCGTCACTGTTGTTGGGGGNNCAAGTTCGTTCCGATGATGATGAGGAGAC 360
DB 309 CGCACGTCGACTGCTGCTGTTGGGCGGCTGCTTCTGCTCGCTATGATGAGGAGAT 368
QY 361 CTTTGGCGGTCGTCCTTCTGCTGCTGCGCAAGCTATTCACCTTTTCAACCCCGCATC 420
DB 369 CTCGCGGATCTGTTTCTGCTGCTCCAGCTGTTTCACTTCTGCGCTGCGCGCATGAG 428
QY 421 ACAACGAGAGTGAAGTCTCAATC 447
DB 429 ACAGTGACGAGCTCAACTGCTCAATC 455

Search completed: January 11, 2006, 04:37:38
Job time : 113.089 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 81.2663 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-5
Perfect score: 327
Sequence: 1 atgcgcagcagctcaaac.....ctgcgcagctg99gcccc 327

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
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7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
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9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	293.6	89.8	573	2	US-09-194-949A-5
3	292	89.3	573	2	US-08-290-665A-116
4	292	89.3	573	6	PCT-US95-10398-116
5	288.8	88.3	549	3	US-08-441-971-64
6	288.8	88.3	549	3	US-08-221-653-64
7	288.8	88.3	549	3	US-08-442-144A-64
8	288.8	88.3	549	3	US-08-441-970-64
9	288.8	88.3	573	2	US-08-290-665A-113
10	288.8	88.3	573	2	US-08-290-665A-114
11	288.8	88.3	573	2	US-08-290-665A-115
12	288.8	88.3	573	2	US-08-290-665A-118
13	288.8	88.3	573	6	PCT-US95-10398-113
14	288.8	88.3	573	6	PCT-US95-10398-114
15	288.8	88.3	573	6	PCT-US95-10398-115
16	288.8	88.3	573	6	PCT-US95-10398-118
17	288.8	88.3	9275	3	US-10-259-275-39
18	287.8	88.0	327	3	US-08-836-075A-1
19	287.2	87.8	345	2	US-08-324-977-7
20	287.2	87.8	345	2	US-08-384-616-7
21	287.2	87.8	345	2	US-08-904-686A-7
22	287.2	87.8	345	3	US-09-315-850-7
23	287.2	87.8	573	2	US-08-290-665A-120
24	287.2	87.8	573	2	US-08-290-665A-121

25	287.2	87.8	573	6	PCT-US95-10398-120	Sequence 120, App
26	287.2	87.8	573	6	PCT-US95-10398-121	Sequence 121, App
27	287.2	87.8	685	3	US-09-690-936-37	Sequence 37, App
28	287.2	87.8	686	3	US-08-988-321B-37	Sequence 37, App
29	287.2	87.8	686	3	US-08-397-220B-25	Sequence 25, App
30	287.2	87.8	686	3	US-08-550-093C-25	Sequence 25, App
31	287.2	87.8	1167	2	US-08-324-977-9	Sequence 9, App1
32	287.2	87.8	1167	2	US-08-384-616-9	Sequence 9, App1
33	287.2	87.8	1167	3	US-08-904-686A-9	Sequence 9, App1
34	287.2	87.8	1167	3	US-09-315-850-9	Sequence 9, App1
35	287.2	87.8	1499	2	US-08-324-977-3	Sequence 3, App1
36	287.2	87.8	1499	2	US-08-384-616-3	Sequence 3, App1
37	287.2	87.8	1499	2	US-08-904-686A-3	Sequence 3, App1
38	287.2	87.8	1499	3	US-09-315-850-3	Sequence 3, App1
39	287.2	87.8	6039	2	US-08-324-977-11	Sequence 11, App1
40	287.2	87.8	6039	2	US-08-384-616-11	Sequence 11, App1
41	287.2	87.8	6039	2	US-08-904-686A-11	Sequence 11, App1
42	287.2	87.8	6039	3	US-09-315-850-11	Sequence 11, App1
43	287.2	87.8	9030	2	US-08-324-977-13	Sequence 13, App1
44	287.2	87.8	9030	2	US-08-384-616-13	Sequence 13, App1
45	287.2	87.8	9030	2	US-08-904-686A-13	Sequence 13, App1

ALIGNMENTS

RESULT 1
US-08-836-075A-5
Sequence 5, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

PCT-US95-10398-116

Query Match 89.3%; Score 292; DB 6; Length 573;
 Best Local Similarity 93.0%; Pred. No. 5.1e-79;
 Matches 304; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 61 GACGTCAAGNTCCCGGGTGTGTGATCGTGTGAGATTACCTGTGCGCGCAGG 120
 Db 61 GACGTCAAGNTCCCGGGTGTGTGATCGTGTGAGATTACCTGTGCGCGCAGG 120

Qy 121 GGGCCAGGTGGTGTGTGCGCGCAGCAAGAAAGACTTCCAGCGGTGCGACCTGTGAC 180
 Db 121 GGGCCAGGTGGTGTGTGCGCGCAGCAAGAAAGACTTCCAGCGGTGCGACCTGTGAC 180

Qy 181 AGGCGACAGCCATATCCCTTAAGCTTGGCAGTCCGATGCGCAAGNCTGGGCTCAGCGAGG 240
 Db 181 AGGCGACAGCCATATCCCTTAAGCTTGGCAGTCCGATGCGCAAGNCTGGGCTCAGCGAGG 240

Qy 241 CATCCCTGGCCCTCTATGCGCAATGAGGAGGCTGCGAGTGGCGGATGCTCTGCTCCGCC 300
 Db 241 TACCCCTGGCCCTCTATGCGCAATGAGGAGGCTGCGAGTGGCGGATGCTCTGCTCCGCC 300

Qy 301 CGCGGCTCTCGGCGCCAGTTGGGGCCCC 327
 Db 301 CGCGGCTCTCGGCGCCAGTTGGGGCCCC 327

RESULT 4

PCT-US95-10398-116

Sequence 116, Application PC/TUS9510398

GENERAL INFORMATION:

APPLICANT: BURKH, J., MILLER, R.H. AND

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10398

FILING DATE: 15-AUG-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/086,428

FILING DATE: 29 JUNE 1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/290/665

FILING DATE: 15 AUGUST 1994

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 116:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

ORIGINAL SOURCE:

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: SW2

PCT-US95-10398-116

Query Match 89.3%; Score 292; DB 6; Length 573;
 Best Local Similarity 93.0%; Pred. No. 5.1e-79;
 Matches 304; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 1 ATGAGCAGCAATCCCTTAAGCTTCAAGAAAAACCAAGTAAACAACACCGCGCCACAG 60
 Db 1 ATGAGCAGCAATCCCTTAAGCTTCAAGAAAAACCAAGTAAACAACACCGCGCCACAG 60

Qy 61 GACGTCAAGNTCCCGGGTGTGTGATCGTGTGAGATTACCTGTGCGCGCAGG 120
 Db 61 GACGTCAAGNTCCCGGGTGTGTGATCGTGTGAGATTACCTGTGCGCGCAGG 120

Qy 121 GGGCCAGGTGGTGTGTGCGCGCAGCAAGAAAGACTTCCAGCGGTGCGACCTGTGAC 180
 Db 121 GGGCCAGGTGGTGTGTGCGCGCAGCAAGAAAGACTTCCAGCGGTGCGACCTGTGAC 180

Qy 181 AGGCGACAGCCATATCCCTTAAGCTTGGCAGTCCGATGCGCAAGNCTGGGCTCAGCGAGG 240
 Db 181 AGGCGACAGCCATATCCCTTAAGCTTGGCAGTCCGATGCGCAAGNCTGGGCTCAGCGAGG 240

Qy 241 CATCCCTGGCCCTCTATGCGCAATGAGGAGGCTGCGAGTGGCGGATGCTCTGCTCCGCC 300
 Db 241 TACCCCTGGCCCTCTATGCGCAATGAGGAGGCTGCGAGTGGCGGATGCTCTGCTCCGCC 300

Qy 301 CGCGGCTCTCGGCGCCAGTTGGGGCCCC 327
 Db 301 CGCGGCTCTCGGCGCCAGTTGGGGCCCC 327

RESULT 5

US-08-441-971-64

Sequence 64, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: Wordperfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Jantuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 64:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 115
US-08-441-971-64

Query Match 88.3%; Score 288.8; DB 3; Length 549;
Best Local Similarity 92.4%; Pred. No. 4,8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCACAG 60
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCACAG 60
QY 61 GACGTCAAGNTCCCGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
DB 61 GACGTCAAGTTCGGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
QY 121 GGGCCAGATGGTGTGTCGGCGGCAAGAAAGATTCCGAGCGGTCCGACGCTGTGAC 180
DB 121 GGGCCAGATGGTGTGTCGGCGGCAAGAAAGATTCCGAGCGGTCCGACGCTGTGAC 180
QY 181 AGGCGACAGCCTATTCTTAAGGCTCGCCAGTCCGAGTGCAGNNCTGGGCTCAGCCAGG 240
DB 181 AGGCGACACCTATTCTTAAGGCTCGCCAGTCCGAGTGCAGNNCTGGGCTCAGCCAGG 240
QY 241 CATCCCTGGCCCTCTATATGCAATGAGGAGCTGCGGATGAGGAGTGCCTCTGTCGCC 300
DB 241 TACCCCTGGCCCTCTATATGCAATGAGGAGTATGAGGATGAGGATGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCAGTTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCAGTTGGGGCCCC 327

RESULT 6

US-08-221-653-64
Sequence 64, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SRO ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 115
US-08-221-653-64

Query Match 88.3%; Score 288.8; DB 3; Length 549;
Best Local Similarity 92.4%; Pred. No. 4,8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCACAG 60
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCACAG 60
QY 61 GACGTCAAGNTCCCGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
DB 61 GACGTCAAGTTCGGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
QY 121 GGGCCAGATGGTGTGTCGGCGGCAAGAAAGATTCCGAGCGGTCCGACGCTGTGAC 180
DB 121 GGGCCAGATGGTGTGTCGGCGGCAAGAAAGATTCCGAGCGGTCCGACGCTGTGAC 180
QY 181 AGGCGACAGCCTATTCTTAAGGCTCGCCAGTCCGAGTGCAGNNCTGGGCTCAGCCAGG 240
DB 181 AGGCGACACCTATTCTTAAGGCTCGCCAGTCCGAGTGCAGNNCTGGGCTCAGCCAGG 240
QY 241 CATCCCTGGCCCTCTATATGCAATGAGGAGCTGCGGATGAGGAGTGCCTCTGTCGCC 300
DB 241 TACCCCTGGCCCTCTATATGCAATGAGGAGTATGAGGATGAGGATGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCAGTTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCAGTTGGGGCCCC 327

RESULT 7

US-08-442-144A-64
Sequence 64, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

```

      FILING DATE: 16-MAY-1995
      CLASSIFICATION: 536
      PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 07/881,528
      FILING DATE: 08-MAY-1992
      APPLICATION NUMBER: 07/697,326
      FILING DATE: 8 May 1991
      ATTORNEY/AGENT INFORMATION:
      NAME: Janiuk, Anthony J.
      REGISTRATION NUMBER: 29,809
      REFERENCE/DOCKET NUMBER: C0772/7000
      TELECOMMUNICATION INFORMATION:
      TELEPHONE: (617) 720-3500
      TELEFAX: (617) 720-2441
      TELEX: EZEKIEL
      INFORMATION FOR SEQ ID NO: 64:
      SEQUENCE CHARACTERISTICS:
      LENGTH: 549 nucleotides
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
      MOLECULE TYPE: DNA
      ORIGINAL SOURCE:
      INDIVIDUAL ISOLATE: 115
      US-08-441-970-64

Query Match      88.3%; Score 288.8; DB 3; Length 549;
Best local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY      1 ATGAGCAGCAATCCTTAACCTCAAGAAAAACCAAGCTAAACCAACCGCGCCACAG 60
      |||
DB      1 ATGAGCAGCAATCCTTAACCTCAAGAAAAACCAAGCTAAACCAACCGCGCCACAG 60

QY      61 GACGTCAGAGTCCCGGCGGTGTGTCAGATCGTTGGTGAAGTTTAACTGTGCCGCGAG 120
      |||
DB      61 GACGTCAGAGTCCCGGCGGTGTGTCAGATCGTTGGTGAAGTTTAACTGTGCCGCGAG 120

QY      121 GCGCCCAAGTTGGGTGTGCGCGCGACCAAGAAAGCTTCCAGCGGTGCGACGCTGTGAC 180
      |||
DB      121 GCGCCCAAGTTGGGTGTGCGCGCGACCAAGAAAGCTTCCAGCGGTGCGACGCTGTGGA 180

QY      181 AGGCGAAGCTTATCTTAAGCTCGGCACTGCGAATGCGAAGGCTGAGGCTGACGCAAGG 240
      |||
DB      181 AGGCGAAGCTTATCTTAAGCTCGGCAAGCTCGGCAAGGCTGAGGCTGACGCGGG 240

QY      241 CATCCCGGCGCCCTCTATGCGAATGAGGCGTGCAGATGGGCGGATGAGCTCTGTCCGCC 300
      |||
DB      241 TACCCCTGGCCCTCTATGCGAATGAGGCTATGAGGCTGGGCGAGGATGAGCTCTGTCAACC 300

QY      301 CGCGGCTCTCGGCCCAAGTTGGGCGCCC 327
      |||
DB      301 CGCGGCTCTCGGCCCAAGTTGGGCGCCC 327

RESULT 9
US-08-290-665A-113
; Sequence 113, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK

```

COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 113:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: P10
US-08-290-665A-113

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGACGACGATCCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
DB 1 ATGACGACGATCCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
QY 61 GACGTCAGANTCCCGGGTGTGTGTCAGATCGTTGTGTGAGTTACCTGTGCGCGCAGG 120
DB 61 GACGTCAGATTCCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
QY 61 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 120
DB 61 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 120
QY 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
DB 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
QY 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
DB 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
QY 181 AGCGACAGACCTATTCCTTAAGAGCTCGCAATGCGAGGCTCGAGCGCTCGAGCGG 240
DB 181 AGCGACAGACCTATTCCTTAAGAGCTCGCAATGCGAGGCTCGAGCGGCTCGAGCGG 240
QY 241 CATCCCTGAGCCCTCTATATGCAATGAGGCTCGGATGCGAGGCTCGGATGCTCTGCTCC 300
DB 241 TACCTTGAGCCCTCTATATGCAATGAGGCTCGGATGCGAGGCTCGGATGCTCTGCTCC 300
QY 301 CGCGGCTCTCGGCGCCAGTTGGGGCCCC 327
DB 301 CGTGCGCTCTCGGCGCCAGTTGGGGCCCC 327

RESULT 10
US-08-290-665A-114
; Sequence 114, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BORK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 114:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: DK1
US-08-290-665A-114

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGACGACGATCCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
DB 1 ATGACGACGATCCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
QY 61 GACGTCAGANTCCCGGGTGTGTGTCAGATCGTTGTGTGAGTTACCTGTGCGCGCAGG 120
DB 61 GACGTCAGATTCCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
QY 61 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 120
DB 61 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 120
QY 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
DB 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
QY 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
DB 121 GACGTCAGATTCCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAG 180
QY 181 AGCGACAGACCTATTCCTTAAGAGCTCGCAATGCGAGGCTCGAGCGGCTCGAGCGG 240
DB 181 AGCGACAGACCTATTCCTTAAGAGCTCGCAATGCGAGGCTCGAGCGGCTCGAGCGG 240
QY 241 CATCCCTGAGCCCTCTATATGCAATGAGGCTCGGATGCGAGGCTCGGATGCTCTGCTCC 300
DB 241 TACCTTGAGCCCTCTATATGCAATGAGGCTCGGATGCGAGGCTCGGATGCTCTGCTCC 300
QY 301 CGCGGCTCTCGGCGCCAGTTGGGGCCCC 327
DB 301 CGTGCGCTCTCGGCGCCAGTTGGGGCCCC 327

RESULT 11
US-08-290-665A-115
; Sequence 115, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BORK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: T10
US-08-290-665A-115

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAACCTCAAGAAACCAAACTTAACCAACCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAACCAAACTTAACCAACCGCGCCACAG 60
QY 61 GACGTCAAGTCCCGGGTGGTGCAGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
Db 61 GACGTCAAGTCCCGGGTGGTGCAGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
QY 121 GCGCCAGTGGGTGGTGGCGCGGACCAAGAAAGATTCCGAGCGGTCCGACCTGTGAC 180
Db 121 GCGCCAGTGGGTGGTGGCGCGGACCAAGAAAGATTCCGAGCGGTCCGACCTGTGAC 180
QY 181 AGCGCAGAGCTATTCTTAAGGCTCGCCAGTCCGAGCAAGNNCTGGGCTCAGCGAGG 240
Db 181 AGCGCAGAGCTATTCTTAAGGCTCGCCAGTCCGAGCAAGNNCTGGGCTCAGCGAGG 240
QY 241 CATCCCTGCGCCCTCTATGAGCAATGAGGAGTGGGATGGGATGGCTCTCTGCCCC 300
Db 241 TACCTTGGCCCTCTATGAGCAATGAGGAGTGGGATGGGATGGCTCTCTGCCCC 300
QY 301 CGCGGCTCTCGGCCAGTTGGGGCCCC 327
Db 301 CGTGGCTCCCGGCTAAGTTGGGGCCCC 327

RESULT 12
US-08-290-665A-118
; Sequence 118, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND

APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
INFORMATION FOR SEQ ID NO: 118:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: IND8
US-08-290-665A-118

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAACCTCAAGAAACCAAACTTAACCAACCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAACCAAACTTAACCAACCGCGCCACAG 60
QY 61 GACGTCAAGTCCCGGGTGGTGCAGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
Db 61 GACGTCAAGTCCCGGGTGGTGCAGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
QY 121 GCGCCAGTGGGTGGTGGCGCGGACCAAGAAAGATTCCGAGCGGTCCGACCTGTGAC 180
Db 121 GCGCCAGTGGGTGGTGGCGCGGACCAAGAAAGATTCCGAGCGGTCCGACCTGTGAC 180
QY 181 AGCGCAGAGCTATTCTTAAGGCTCGCCAGTCCGAGTCCGAGCAAGNNCTGGGCTCAGCGAGG 240
Db 181 AGCGCAGAGCTATTCTTAAGGCTCGCCAGTCCGAGTCCGAGCAAGNNCTGGGCTCAGCGAGG 240
QY 241 CATCCCTGCGCCCTCTATGAGCAATGAGGAGTGGGATGGGATGGCTCTCTGCCCC 300
Db 241 CACCTTGGCCCTCTATGAGCAATGAGGAGTGGGATGGGATGGCTCTCTGCCCC 300
QY 301 CGCGGCTCTCGGCCAGTTGGGGCCCC 327
Db 301 CGCGGCTCTCGGCCAGTTGGGGCCCC 327

RESULT 13
PCT-US95-10398-113

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; Sequence 113, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: P10
; PCT-US95-10398-113

Query Match      88.3%; Score 288.8; DB 6; Length 573;
Best Local Similarity 92.4%; Pred. No. 4,8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
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Oy      301 CGCGCTCTCGGCCCACTTGGGGGCC 327
Db      301 CGTGGCTCTCGCCTAGTTGGGGCCC 327

RESULT 14
PCT-US95-10398-114
; Sequence 114, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DX1
; PCT-US95-10398-114

Query Match      88.3%; Score 288.8; DB 6; Length 573;
Best Local Similarity 92.4%; Pred. No. 4,8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
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Db 121 GGGCCAGGTTGGTGGCGCGCACTAGAGAACTCCGAGCGGTCCCAACTCTGTGGA 180
Qy 181 AGGCGACAGCCTATCTTAAGGCTGCGCCAGTCCGATGCGAGNNCTTGCGCTCAGCAGG 240
Db 181 AGGCGACAGCCTATCTTAAGGCTGCGCCAGTCCGATGCGAGNNCTTGCGCTCAGCAGG 240
Qy 241 CATCCCTGCGCCCTCTATGCAATGAGGAGTGGCGATGCGAGTGGCTCTGTCGCCCC 300
Db 241 TACCTTGCGCCCTCTATGCAATGAGGAGTGGCGATGCGAGTGGCTCTGTCACCC 300
Qy 301 CGCGGCTCTCGGCGCCAGTTGGGCGCCC 327
Db 301 CGCGGCTCTCGGCGCCAGTTGGGCGCCC 327

RESULT 15
PCT-US95-10398-115
Sequence 115, Application PC/TUS9510398
GENERAL INFORMATION:

APPLICANT: BURKH, J., MILLER, R.H. AND
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792

INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

ORGANISM: homosapiens
INDIVIDUAL ISOLATE: T10
PCT-US95-10398-115

Query Match 88.3%; Score 288.8; DB 6; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

Qy 1 ATGACACGAATCTCTAAACCTCAAGAAAAACAAGCTAACACCAACCGCGGCCACAG 60
Db 1 ATGACACGAATCTCTAAACCTCAAGAAAAACAAGCTAACACCAACCGCGGCCACAG 60
Qy 61 GACGTCAAGTCCCGGGTGTGTGATGATGCTGTGTGAGATTACCTGTTCCCGGCAGG 120
Db 61 GACGTCAAGTCCCGGGTGTGTGATGATGCTGTGTGAGATTACCTGTTCCCGGCAGG 120
Qy 121 GGGCCAGGTTGGGTGTGCGCGGACCAAGAAAGCTCCGAGCGGTCGACCTGTGAC 180
Db 121 GGGCCAGGTTGGGTGTGCGCGGACCAAGAAAGCTCCGAGCGGTCGACCTGTGAC 180
Qy 181 AGGCGACAGCCTATCTTAAGGCTGCGCCAGTCCGATGCGAGNNCTTGCGCTCAGCAGG 240
Db 181 AGGCGACAGCCTATCTTAAGGCTGCGCCAGTCCGATGCGAGNNCTTGCGCTCAGCAGG 240
Qy 241 CATCCCTGCGCCCTCTATGCAATGAGGAGTGGCGATGCGAGTGGCTCTGTCGCCCC 300
Db 241 TACCTTGCGCCCTCTATGCAATGAGGAGTGGCGATGCGAGTGGCTCTGTCACCC 300
Qy 301 CGCGGCTCTCGGCGCCAGTTGGGCGCCC 327
Db 301 CGTGTCTCCGCGCCTAGTTGGGCGCCC 327

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Job time : 81.2663 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-7
Perfect score: 447
Sequence: 1 gacgagctgacctgtcaac.....aggagctcaactgtcaatc 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
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9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	446.6	99.9	447	3	US-08-836-075A-7
2	372.6	83.4	447	3	US-08-836-075A-3
3	312.2	69.8	633	3	US-08-612-973-7
4	312.2	69.8	633	3	US-08-927-597-7
5	312.2	69.8	633	3	US-08-928-757-7
6	312.2	69.8	1037	2	US-08-462-195-1
7	312.2	69.8	1037	2	US-08-636-883-1
8	312.2	69.8	1037	3	US-09-127-829-1
9	310.6	69.5	501	2	US-08-483-695-28
10	310.6	69.5	501	2	US-07-965-285-28
11	310.6	69.5	501	2	US-08-487-231-28
12	310.6	69.5	501	2	US-09-201-912-28
13	310.6	69.5	795	3	US-08-612-973-5
14	310.6	69.5	795	3	US-08-927-597-5
15	310.6	69.5	795	3	US-08-928-757-5
16	310.6	69.5	2082	3	US-08-612-973-47
17	310.6	69.5	2082	3	US-08-927-597-47
18	310.6	69.5	2082	3	US-08-928-757-47
19	310.6	69.5	2433	3	US-08-612-973-49
20	310.6	69.5	2433	3	US-08-927-597-49
21	310.6	69.5	2433	3	US-08-928-757-49
22	307.4	68.8	636	3	US-08-612-973-13
23	307.4	68.8	636	3	US-08-927-597-13
24	307.4	68.8	636	3	US-08-928-757-13

25	307.4	68.8	742	2	US-08-081-072-18	Sequence 18, Appl
26	307.4	68.8	742	2	US-08-449-093A-18	Sequence 18, Appl
27	307.4	68.8	932	2	US-08-081-072-15	Sequence 15, Appl
28	307.4	68.8	932	2	US-08-449-093A-15	Sequence 15, Appl
29	305.8	68.4	9472	3	US-08-150-204B-96	Sequence 96, Appl
30	304.2	68.1	501	2	US-08-483-695-30	Sequence 30, Appl
31	304.2	68.1	501	2	US-07-965-285-30	Sequence 30, Appl
32	304.2	68.1	501	2	US-08-487-231-30	Sequence 30, Appl
33	304.2	68.1	501	3	US-09-201-912-30	Sequence 10, Appl
34	304.2	68.1	1539	2	US-08-470-426B-17	Sequence 17, Appl
35	304.2	68.1	1863	2	US-08-470-426B-14	Sequence 14, Appl
36	303.2	67.8	11076	3	US-09-539-601-1	Sequence 1, Appl
37	303.2	67.8	11076	3	US-09-539-601-19	Sequence 19, Appl
38	303.2	67.8	11076	3	US-09-539-601-25	Sequence 25, Appl
39	303.2	67.8	11076	3	US-09-539-601-31	Sequence 31, Appl
40	301	67.3	2116	3	US-08-191-160-21	Sequence 21, Appl
41	294.6	65.9	9413	3	US-09-827-688-6	Sequence 6, Appl
42	294.6	65.9	9595	3	US-09-014-416-4	Sequence 4, Appl
43	294.6	65.9	9599	3	US-09-014-416-6	Sequence 6, Appl
44	289.8	64.8	9275	3	US-10-259-275-39	Sequence 39, Appl
45	288.2	64.5	1037	2	US-08-462-195-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-7
; Sequence 7, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-7

Query Match 99.9%; Score 446.6; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 3.9e-144;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GAGGCGGTGAACCTATGCAACAGGAAATTGCTGTTGCTTCTCTATCTTCTCTTA 60
DB 1 GAGGCGGTGAACCTATGCAACAGGAAATTGCTGTTGCTTCTCTATCTTCTCTTA 60
QY 61 GCTTTTCTGTCCTGCTTACCGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
DB 61 GCTTTTCTGTCCTGCTTACCGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
QY 121 GTATATCATCTTCAACATGATCTGTTCCAACTGAGCATCATCTATGAGATGATGATG 180
DB 121 GTATATCATCTTCAACATGATCTGTTCCAACTGAGCATCATCTATGAGATGATGATG 180
QY 181 ATCTTGACGCGCCGAGGGTGTGCGCTGCGGTGGGGAACAACCTCTCTGTTGCTGG 240
DB 181 ATCTTGACGCGCCGAGGGTGTGCGCTGCGGTGGGGAACAACCTCTCTGTTGCTGG 240
QY 241 ATGCCRCTACCCCAAGGCTTGCCTTCAAGACGCTAATGTCCTACTGCGGCAATCCGA 300
DB 241 ATGCCRCTACCCCAAGGCTTGCCTTCAAGACGCTAATGTCCTACTGCGGCAATCCGA 300
QY 301 CGCCATGTGCACTTGTGTTGGAGACGCGGCTTTCCTCCGTAATGATGATGAGGAGAC 360
DB 301 CGCCATGTGCACTTGTGTTGGAGACGCGGCTTTCCTCCGTAATGATGATGAGGAGAC 360
QY 361 CTGCGGATCGCTTCTTCTGTTGGGAGGAGTATTCACCTTTTACCCCGCTGTACAT 420
DB 361 CTGCGGATCGCTTCTTCTGTTGGGAGGAGTATTCACCTTTTACCCCGCTGTACAT 420
QY 421 ACAACACAGAGTGCACTGCTCATC 447
DB 421 ACAACACAGAGTGCACTGCTCATC 447
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RESULT 2
US-08-836-075A-3
Sequence 3, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-3

Query Match 83.4%; Score 372.6; DB 3; Length 447;
Best Local Similarity 88.6%; Pred. No. 1.6e-118;
Matches 396; Conservative 5; Mismatches 46; Indels 0; Gaps 0;

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DB 1 GAGGCGGTGAACCTATGCAACAGGAAATTGCTGTTGCTTCTCTATCTTCTCTTA 60
QY 61 GCTTTTCTGTCCTGCTTACCGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
DB 61 GCTTTTCTGTCCTGCTTACCGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
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DB 121 GTATATCATCTTCAACATGATCTGTTCCAACTGAGCATCATCTATGAGATGATGATG 180
QY 181 ATCTTGACGCGCCGAGGGTGTGCGCTGCGGTGGGGAACAACCTCTCTGTTGCTGG 240
DB 181 ATCTTGACGCGCCGAGGGTGTGCGCTGCGGTGGGGAACAACCTCTCTGTTGCTGG 240
QY 241 ATGCCRCTACCCCAAGGCTTGCCTTCAAGACGCTAATGTCCTACTGCGGCAATCCGA 300
DB 241 ATGCCRCTACCCCAAGGCTTGCCTTCAAGACGCTAATGTCCTACTGCGGCAATCCGA 300
QY 301 CGCCATGTGCACTTGTGTTGGAGACGCGGCTTTCCTCCGTAATGATGATGAGGAGAC 360
DB 301 CGCCATGTGCACTTGTGTTGGAGACGCGGCTTTCCTCCGTAATGATGATGAGGAGAC 360
QY 361 CTGCGGATCGCTTCTTCTGTTGGGAGGAGTATTCACCTTTTACCCCGCTGTACAT 420
DB 361 CTGCGGATCGCTTCTTCTGTTGGGAGGAGTATTCACCTTTTACCCCGCTGTACAT 420
QY 421 ACAACACAGAGTGCACTGCTCATC 447
DB 421 ACAACACAGAGTGCACTGCTCATC 447
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RESULT 3
US-08-612-973-7
Sequence 7, Application US/08612973
Patent No. 6150134
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: BOSMAN, FONS
APPLICANT: DE MARTYNOFF, GUY
APPLICANT: BUYSE, MARIE-ANGE
TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHAYE P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/612,973
FILING DATE: 11-MAR-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..630
NAME/KEY: mat_peptide
LOCATION: 1..627
US-08-612-973-7

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Query Match      69.8%; Score 312.2; DB 3; Length 633;
Best Local Similarity 81.0%; Pred. No. 1.5e-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

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QY 1 GACGGCGTGAACATGCAAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTA 60
DB 127 GACGGCGTGAACATGCAAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTA 186
QY 61 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTCAAGAGTGCGCAAGCATCCGG 120
DB 187 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTTCCGCTTATGAGTGCGCAAGCATCCGG 246
QY 121 GTATATCATCTCAACATGATGTTCCAACTGAGCATCATCTATGAGATGATGATG 180
DB 247 ATGTACCATGTCAAGACGACTGCTCCAACTCAAGCATGTGTATGAGGACGCGACATG 306
QY 181 ATCTTGACGCGCCCAAGGAGTGATGCGCTGCGGAGGAGCAACTCTTCTGTTGCTGG 240
DB 307 ATCTTGACGACCGCCCAAGGAGTGATGCGCTGCGGAGGAGCAACTCTTCTGTTGCTGG 366
QY 241 ATGCGCTCAACCCCAAGGAGTGATGCGCTCAAGAGCTATATGCTTCTTCTGCGCAATCCGA 300
DB 367 GTACGGCTCAACCCCAAGGAGTGATGCGCTCAAGAGCTATATGCTTCTTCTGCGCAATCCGA 426
QY 301 CGCATGTCACTGCTGTTGGAGCAAGCGCGTTTGTTCGCTATGATGATGATGATG 360
DB 427 CGCATGTCACTGCTGTTGGAGCAAGCGCGTTTGTTCGCTATGATGATGATGATG 486
QY 361 CTGCGCGATGCGCTTCTGTTGCGGAGCTATTCACCTTTTACCCCGCTTATCAT 420
DB 487 CTGCGCGATGCGCTTCTGTTGCGGAGCTATTCACCTTTTACCCCGCTTATCAT 546
QY 421 ACAACACAGAGTCAACTGCTCAATC 447
DB 547 ACGGTGACAGACTGAATTGCTCAATC 573

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RESULT 4
US-08-927-597-7
Sequence 7, Application US/08927597

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Patent No. 6245503
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: BOSMAN, FONS
APPLICANT: DE MARTYNOFF, GUY
APPLICANT: BUYSSE, MARIE-ANGE
TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHIE P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/927,597
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/612,973
FILING DATE: 11-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..630
NAME/KEY: mat_peptide
LOCATION: 1..627
US-08-927-597-7

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Query Match      69.8%; Score 312.2; DB 3; Length 633;
Best Local Similarity 81.0%; Pred. No. 1.5e-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

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QY 1 GACGGCGTGAACATGCAAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTA 60
DB 127 GACGGCGTGAACATGCAAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTA 186
QY 61 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTCAAGAGTGCGCAAGCATCCGG 120
DB 187 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTTCCGCTTATGAGTGCGCAAGCATCCGG 246
QY 121 GTATATCATCTCAACATGATGTTCCAACTGAGCATCATCTATGAGATGATGATG 180
DB 247 ATGTACCATGTCAAGACGACTGCTCCAACTCAAGCATGTGTATGAGGACGCGACATG 306
QY 181 ATCTTGACGCGCCCAAGGAGTGATGCGCTGCGGAGGAGCAACTCTTCTGTTGCTGG 240
DB 307 ATCTTGACGACCGCCCAAGGAGTGATGCGCTGCGGAGGAGCAACTCTTCTGTTGCTGG 366
QY 241 ATGCGCTCAACCCCAAGGAGTGATGCGCTCAAGAGCTATATGCTTCTTCTGCGCAATCCGA 300

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Best Local Similarity 81.0%; Pred. No. 1.5e-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0.

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QY      1 GACGCGCTGCACTATGCAACAGGGAATTTGGCTGTGGTCTTTCTATCTTCTCTTA 60
Db      127 GACGCGCTGCACTATGCAACAGGGAATTTGGCTGTGGTCTTTCTATCTTCTCTTG 186
QY      61 GCTTTTCTGTCTCTGCTTGACGGTTCACACTACGCTCATGAGGTGCGCAACGCATCCGGG 120
Db      187 GCTTTACTGTCTCTGTGACCATTTCCAGCTTCCGTTATAGAGTGCAGACGTGTCCGGG 246
QY      121 GTATATCATCTCACCAATGACTGTTCCTCAACTCGACATCATCTATGAGATGAGTGTATG 180
Db      247 ATGATCCATGTCAAGAAAGACTGCTCCCACTTCAGACATTTGTGTATGAGGACCGGACATG 306
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Db      307  ATCATGACAAACCCCGGGGTGGTCCCTGCGGTGGAGAAACAATTCTTCCCGCTGCTGG 366
Qy      241  ATGCGCTCAACCCCGCCGCTTGGCGGTGCAAAAGCGTATATGCTTACTGGCGGCATCCGA 300
Db      367  GTAGCGCTCAACCCCGCCGCTGCAAGCTTAGAAGCGCACCGTCCCACTTAGCAATTAGCA 426
Qy      301  CGCCATGTCGACTTGTCTGTGGAGCAAGCGCGTTTCGTTCCGCTATGATCGTGGGGAGC 360
Db      427  CGCCACGTCGATTTGCTGTGTGGGGCGGCTGCTTCTGTTCGCTATGACGTGGGGGAT 486
Qy      361  CTCGCGGATCCGCTTCTTCTGTGGGCGAGCTATTCACCTTTACCCCCGCTGTATCAAT 420
Db      487  CTCGCGGATGTGCTTCTGTCTGTCTCCAGCTGTTCACCACTTCGCTTCGCGGATGAG 546
Qy      421  ACAACAGAGAGTGCATCTGCTCATC 447
Db      547  ACGGTGACGACTGCATATGCTCATC 573

RESULT 6
US-08-462-195-1
: Sequence 1, Application US/08462195
: Patent No. 5789544
: GENERAL INFORMATION:
: APPLICANT: MIYAMURA, TATSUO
: APPLICANT: SAITO, IZUMU
: APPLICANT: MATSURA, YOSHITARU
: APPLICANT: HONDA, YOSHIKAZU
: APPLICANT: SEKI, MAKOTO
: TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF
: TITLE OF INVENTION: HEPATITIS C VIRUS
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESS:
: ADDRESS: OBLON, SPIVAK, MCLELLAND, MATER & NEUSTADT,
: ADDRESS: P. C.
: STREET: 1755 S. Jefferson Davis Highway, Suite 400
: CITY: Arlington
: STATE: Virginia
: COUNTRY: U.S.A.
: ZIP: 22202
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/462,195
: FILING DATE: 05-JUN-1995
: CLASSIFICATION: 514
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/446,303
: FILING DATE: 22-MAY-1995
: APPLICATION NUMBER: US 08/074,584
: FILING DATE: 11-JUN-1993
: APPLICATION NUMBER: JP 152487/1992
: FILING DATE: 11-JUN-1992

```

ATTORNEY/AGENT INFORMATION:
 NAME: Oblon, No. 5789544man F.
 REGISTRATION NUMBER: 24,618
 REFERENCE/DOCKET NUMBER: 4169-003-0
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1037 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis C virus
 IMMEDIATE SOURCE:
 CLONE: pUC010
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 17..1036
 US-08-462-195-1

Query Match 69.8%; Score 312.2; DB 2; Length 1037;
 Best Local Similarity 81.0%; Pred. No. 2e-97;
 Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATGCAAGAGGAATTGGCTGTTGCTTTCTATCTTCTCTTA 60
 DB 494 GACGGCGTGAACATGCAAGAGGAATTGGCTGTTGCTTTCTATCTTCTCTTA 553
 QY 61 GCTTTTCTGTCCTGTTGACGGTTCCAACTACCGTCTATGAGTGGCGAAGCATCCGGG 120
 DB 554 GCTCTGCTGTCCTGTTGACCATCCAGCTTCGCTTATGAGTGGCGAAGCATCCGGG 613
 QY 121 GTATATCATCTCAACAATGACTGTTCCAACTCGAAGCATCTATGATGATGATGATG 180
 DB 614 ATATACCAATGTCACAAAGACTGCTCAACTCAACTGATGATGATGATGATGATG 673
 QY 181 ATCTTGACAGCCCGGAGGTGTGTGCTGCTGCTGCGGAGAAACAATCTTCTGTTGCTG 240
 DB 674 ATCATGATGCCCCCGGGTGTGTGCTGCTGCTGCGGAGAAACAATCTTCTGTTGCTG 733
 QY 241 ATGCCRCTACCCCGGAGGTGTGTGCTGCTGCTGCGGAGAAACAATGCTTCTGTTGCTG 300
 DB 734 GTAGGCGTCACTCCACGCTGCGGCGCAGAAATGCGGAGTCCCACTACGACATTTCA 793
 QY 301 CGCAGTGCAGCTGCTGCTGTTGGGACAGCGCGGCTTGGCTGCTGCTGCTGCTGCTG 360
 DB 794 CGCAGTGCAGCTGCTGCTGTTGGGACAGCGCTTCTGCTGCTGCTGCTGCTGCTG 853
 QY 361 CTCTGCGGATCCGTTCTTCTGTTGCGGAGCTATTCACCTTTTACCCCGCTTATCAT 420
 DB 854 CTCTGCGGATCCGTTCTTCTGTTGCGGAGCTATTCACCTTTTCTGCTGCTGCTGCTG 913
 QY 421 ACAACACAGAGTGCATGCTCAATC 447
 DB 914 ACAGTACAGAGTGCATGCTCAATC 940

RESULT 7
 US-08-636-883-1
 ; Sequence 1, Application US/08636883
 ; Patent No. 5830691
 ; GENERAL INFORMATION:
 ; APPLICANT: MIYAMURA, TATSUO
 ; APPLICANT: SAITO, IZUMU
 ; APPLICANT: MATSURA, YOSHIMARU
 ; APPLICANT: HONDA, YOSHIKAZU
 ; APPLICANT: SEKI, MAKOTO
 ; TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF

TITLE OF INVENTION: HEPATITIS C VIRUS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
 ADDRESS: P.C.
 STREET: 1755 S. Jefferson Davis Highway, Suite 400
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/636,883
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/446,303
 FILING DATE:
 APPLICATION NUMBER: US 08/074,584
 FILING DATE: 11-JUN-1993
 APPLICATION NUMBER: JP 152487/1992
 FILING DATE: 11-JUN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Oblon, No. 5830691man F.
 REGISTRATION NUMBER: 24,618
 REFERENCE/DOCKET NUMBER: 4169-003-0
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1037 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis C virus
 IMMEDIATE SOURCE:
 CLONE: pUC010
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 17..1036
 US-08-636-883-1

Query Match 69.8%; Score 312.2; DB 2; Length 1037;
 Best Local Similarity 81.0%; Pred. No. 2e-97;
 Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATGCAAGAGGAATTGGCTGTTGCTTTCTATCTTCTCTTA 60
 DB 494 GACGGCGTGAACATGCAAGAGGAATTGGCTGTTGCTTTCTATCTTCTCTTA 553
 QY 61 GCTTTTCTGTCCTGTTGACGGTTCCAACTACCGTCTATGAGTGGCGAAGCATCCGGG 120
 DB 554 GCTCTGCTGTCCTGTTGACCATCCAGCTTCGCTTATGAGTGGCGAAGCATCCGGG 613
 QY 121 GTATATCATCTCAACAATGACTGTTCCAACTCGAAGCATCTATGATGATGATGATG 180
 DB 614 ATATACCAATGTCACAAAGACTGCTCAACTCAACTGATGATGATGATGATGATG 673
 QY 181 ATCTTGACAGCCCGGAGGTGTGTGCTGCTGCTGCGGAGAAACAATCTTCTGTTGCTG 240
 DB 674 ATCATGATGCCCCCGGGTGTGTGCTGCTGCTGCGGAGAAACAATCTTCTGTTGCTG 733
 QY 241 ATGCCRCTACCCCGGAGGTGTGTGCTGCTGCTGCGGAGAAACAATGCTTCTGTTGCTG 300
 DB 734 GTAGGCGTCACTCCACGCTGCGGCGCAGAAATGCGGAGTCCCACTACGACATTTCA 793

Dh 734 GTAGCGCTACTCCACGCTCGCGCCAGATGCAAGCTGCCCACTACGACATTACGA 793
Qy 301 CGCCATGCGACTGCTGCTGGGACAGCCCGCTTCTCCGCTATGCTAGTGGGGAC 360
Db 794 CGCCACGTCGACTGCTGCTGGGACAGCGCTCTTCTGCTCCGCTATGCTAGTGGGGAT 853
Qy 361 CTCTGCGGATCCGCTTCTGCTGGGACAGCTATTCACCTTTTCAACCCCGCTTACCAT 420
Db 854 CTCTGCGGATCTGTTTCTCTCATCTCCAGCTGTTCACCTTCTGCGCTCGCGGATGAG 913
Qy 421 ACAACACAGAGTGCACTGCTCAATC 447
Db 914 ACAGTACAGAGTGCACTGCTCAATC 940

RESULT 8
US-09-127-829-1
Sequence 1, Application US/09127829
Patent No. 6063904
GENERAL INFORMATION:
APPLICANT: MIYAMURA, TATSUO
APPLICANT: SAITO, IZUMU
APPLICANT: MATSURA, YOSHIHARU
APPLICANT: HONDA, YOSHIKAZU
APPLICANT: SEKI, MAKOTO
TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF
TITLE OF INVENTION: HEPATITIS C VIRUS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/127, 829
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/446, 303
FILING DATE:
APPLICATION NUMBER: US 08/074, 584
FILING DATE: 11-JUN-1993
APPLICATION NUMBER: JP 152487/1992
FILING DATE: 11-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 606390man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 4169-003-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1037 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Hepatitis C virus
IMMEDIATE SOURCE:
CLONE: pUC010
FEATURE:

NAME/KEY: CDS
LOCATION: 17..1036
US-09-127-829-1
Query Match 69.8%; Score 312.2; DB 3; Length 1037;
Best Local Similarity 81.0%; Pred. No. 2e-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;
Qy 1 GAGGCGTGAACATGCAAGAGGAATTTGGCTGGTTGCTTCTTATCTTCCCTTGA 60
Db 494 GAGGCGTGAACATGCAAGAGGAATTTGGCTGGTTGCTTCTTATCTTCCCTTGA 553
Qy 61 GCTTTCTGTCCTGCTTGAAGGTTTCAACTACCGCTCATAGAGTGGCAAGCATCGGG 120
Db 554 GCTCTGCTGTCCTGTTTGAACATCCAGCTTCGGCTTATGAAGTGGCAAGCTGCGGG 613
Qy 121 GTATATCATCTCAACAAATGACTGTTCCACTGAGCATCATCTATGATGAGTGTATG 180
Db 614 ATATACCATGTCAAAACGACTGCTCAACTCAAGCATTTGTATGAGGCGCGGACGTG 673
Qy 181 ATCTTGACGCGCCAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 674 ATATGATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 723
Qy 241 ATGCGCTCAACCCCAAGCTTGGGTCAAAGAGCTATATGCTTCCCTACTGCGGCAATCGA 300
Db 734 GTAGCGCTACTCCACGCTCGCGGCGAGGAATGCCAGCTCCCACTACGACATTACGA 793
Qy 301 CGCCATGCGACTGCTGCTGGGACAGCCCGCTTCTCCGCTATGACGTGGGGAC 360
Db 794 CGCCACGTCGACTGCTGCTGGGACAGCGCTTCTGCTCCGCTATGACGTGGGGAT 853
Qy 361 CTCTGCGGATCCGCTTCTGCTGGGACAGCTATTCACCTTTCAACCCCGCTTACCAT 420
Db 854 CTCTGCGGATCTGTTTCTCTCATCTCCAGCTGTTCACCTTCTGCGCTCGCGGATGAG 913
Qy 421 ACAACACAGAGTGCACTGCTCAATC 447
Db 914 ACAGTACAGAGTGCACTGCTCAATC 940

RESULT 9
US-08-483-695-28
Sequence 28, Application US/08483695
Patent No. 5866139
GENERAL INFORMATION:
APPLICANT: Brecht, Christian
APPLICANT: Kremendorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
TITLE OF INVENTION: Applications
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,695
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/965,285
FILING DATE: 18-MAR-1993

APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: CDNA to genomic RNA
US-08-483-695-28

Query Match 69.5%; Score 310.6; DB 2; Length 501;
Best Local Similarity 80.8%; Pred. No. 4.8e-97;
Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGCGTGAACATATGCAACAGGAAATTGCTGTTCTCTATCTTCTCTTA 60
DB 9 GACGCGTGAACATATGCAACAGGAAATTGCTGTTCTCTATCTTCTCTTA 68
QY 61 GCTTTCTGTCCTGTTTACGCTTCACTACCGCTCATAGAGTGGCAAGCATCCGG 120
DB 69 GCTGCTGTCCTGTTTACGCTTCACTACCGCTCATAGAGTGGCAAGCATCCGG 128
QY 121 GTATATCATCTACCAATGATGCTTCACTGAGCATCATATGATAGATGATG 180
DB 129 ATATACATATGCAACAAAGCATGCTTCACTGAGCATATGATAGATGATG 188
QY 181 ATCTTGACGCCCCAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 189 ATCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 248
QY 241 ATGCGCTACCCCAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 249 GTAGCGCTACCTCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 308
QY 301 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 309 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 368
QY 361 CTCTGCGGATCGTTTCTGTCGCGCAGCTATTCATCTTTTCAACCCCGTTTACCAT 420
DB 369 CTCTGCGGATCGTTTCTGTCGCGCAGCTATTCATCTTTTCAACCCCGTTTACCAT 428
QY 421 ACAACACAGAGTGAATGCTCAATC 447
DB 429 ACAGTACAGAGTGAATGCTCAATC 455

RESULT 10
US-07-965-285-28

; Sequence 28, Application US/07965285
; Patent No. 5879304
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kremendorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flanagan, Henderson, Farabow, Garrett &
; ADDRESS: 1300 I Street, N.W.
; CITY: Washington

STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/965,285
FILING DATE: 18-MAR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: CDNA to genomic RNA
US-07-965-285-28

Query Match 69.5%; Score 310.6; DB 2; Length 501;
Best Local Similarity 80.8%; Pred. No. 4.8e-97;
Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGCGTGAACATATGCAACAGGAAATTGCTGTTCTCTATCTTCTCTTA 60
DB 9 GACGCGTGAACATATGCAACAGGAAATTGCTGTTCTCTATCTTCTCTTA 68
QY 61 GCTTTCTGTCCTGTTTACGCTTCACTACCGCTCATAGAGTGGCAAGCATCCGG 120
DB 69 GCTGCTGTCCTGTTTACGCTTCACTACCGCTCATAGAGTGGCAAGCATCCGG 128
QY 121 GTATATCATCTACCAATGATGCTTCACTGAGCATCATATGATAGATGATG 180
DB 129 ATATACATATGCAACAAAGCATGCTTCACTGAGCATATGATAGATGATG 188
QY 181 ATCTTGACGCCCCAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 189 ATCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 248
QY 241 ATGCGCTACCCCAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 249 GTAGCGCTACCTCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 308
QY 301 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 309 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 368
QY 361 CTCTGCGGATCGTTTCTGTCGCGCAGCTATTCATCTTTTCAACCCCGTTTACCAT 420
DB 369 CTCTGCGGATCGTTTCTGTCGCGCAGCTATTCATCTTTTCAACCCCGTTTACCAT 428
QY 421 ACAACACAGAGTGAATGCTCAATC 447
DB 429 ACAGTACAGAGTGAATGCTCAATC 455

RESULT 11
US-08-487-231-28
; Sequence 28, Application US/08487231
; Patent No. 5919454

GENERAL INFORMATION:
APPLICANT: Brechot, Christian
APPLICANT: Kremdorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,231
FILING DATE: 07-JUNE-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/965,285
FILING DATE: 18-MAR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-02000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-08-487-231-28
Query Match 69.5%; Score 310.6; DB 2; Length 501;
Best Local Similarity 80.8%; Pred. No. 4.8e-97;
Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;
QY 1 GACGGCGTGAATGATGCAACAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTA 60
DB 9 GACGGCGTGAATGATGCAACAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTG 68
QY 61 GCTTTCTGCTGCTGTTGACGGTTCCACTACCGCTCATGAGTGGCAAGCATCCGGG 120
DB 69 GCTGCTGCTGCTGTTTGAACATCCAGCTTCGGTTTGAAGTGGCAAGCGTCCGGG 128
QY 121 GATATCATCTCAACATGATGCTTCAACTGAGCATCATCATATGATGATGATG 180
DB 129 ATATACCATGTACAAACAGACGCTCTCAACTGACATTTGTATGAGGCGGACG 188
QY 181 ATCTTGACAGCCCGAGGGTGTGCGCTGCGTTGCGGAGAACAACTCTTCTGTTG 240
DB 189 ATCATGCAATGCCCCGGGGTGTGCGCTGCGTTGCGGAGAACAACTCTTCTGTTG 248
QY 241 ATGCRCTCACCCCAAGCTTGGCGTCAAGACGCTAATGTCTTACTGCGGCAATCCGA 300
DB 249 GTAGGCTCACCCCAAGCTTGGCGTCAAGACGCTAATGTCTTACTGCGGCAATTCGA 308

QY 301 CGCATGTGACCTTGCTGTTGGAGACCGCGTTTCGTTCCGCTATGATCGTGGGAG 360
DB 309 CGCCACTGCATCTTGCTGCTGTTGGAGCGCTGCTTTCGCTCCGCTATGATCGTGGG 368
QY 361 CTGTCGGATCCGCTTCTTGTGCGCACTATTCACCTTTACCCCGCTGTACCAT 420
DB 369 CTGTCGGATCTGTTTCTCATCTCCACGCTGTTCACCTTTCGCTCGCGCATGAG 428
QY 421 ACAACAGAGTGCACATGCTCATC 447
DB 429 ACAGTACAGACTGCACATGCTCATC 455
RESULT 12
US-09-201-912-28
Sequence 28, Application US/09201912
Patent No. 6210962
GENERAL INFORMATION:
APPLICANT: Brechot, Christian
APPLICANT: Kremdorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/201,912
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,285
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-09-201-912-28
Query Match 69.5%; Score 310.6; DB 3; Length 501;
Best Local Similarity 80.8%; Pred. No. 4.8e-97;
Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;
QY 1 GACGGCGTGAATGATGCAACAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTA 60
DB 9 GACGGCGTGAATGATGCAACAGGAAATTTGCTGTTGCTTTCTATCTTCTCTTG 68
QY 61 GCTTTCTGCTGCTGTTGACGGTTCCACTACCGCTCATGAGTGGCAAGCATCCGGG 120
DB 69 GCTGCTGCTGCTGTTTGAACATCCAGCTTCGGTTTGAAGTGGCAAGCGTCCGGG 128

Qy 12 G|A|T|A|T|C|T|C|A|C|A|T|G|A|C|T|G|T|C|C|A|C|T|G|A|G|A|T|C|A|T|C|A|T|G|A|A|T|G|G|A|T|G 180

Db 129 A|T|A|T|C|A|T|G|T|C|A|A|A|C|A|C|A|T|G|T|C|C|A|C|T|A|A|G|A|T|T|G|T|A|G|A|G|C|G|C|G|A|G|T|G 188

Qy 181 A|T|T|T|G|C|A|C|C|C|C|C|A|G|G|T|G|T|G|C|C|T|G|C|T|T|C|G|G|G|A|A|C|A|A|C|T|T|T|C|T|G|T|G|T|G 240

Db 189 A|T|A|T|G|A|T|G|C|C|C|C|C|C|G|G|G|T|G|C|G|C|C|T|G|C|T|T|C|G|G|G|A|A|A|C|A|A|T|T|C|T|C|C|C|G|T|G|C|T|G 248

Qy 241 A|T|G|C|C|T|T|C|A|C|C|C|C|C|A|C|G|C|T|T|G|C|G|T|C|A|A|A|C|G|C|T|A|T|G|T|C|T|T|A|T|G|C|G|C|G|A|T|C|C|G|A 300

Db 249 G|T|A|G|C|G|C|T|A|C|C|C|A|C|G|C|G|G|G|C|C|A|G|A|A|T|G|C|A|A|T|G|C|C|C|A|T|A|C|A|C|A|T|T|A|G|A 308

Qy 301 C|G|C|A|T|G|T|C|A|C|T|T|G|C|T|G|T|G|G|G|A|C|A|G|C|G|G|T|T|C|T|T|C|G|C|T|A|T|A|G|T|A|G|T|G|G|G|G|A|C 360

Db 309 C|G|C|A|C|C|T|C|A|C|T|T|G|C|T|G|T|G|G|G|A|G|G|G|T|G|T|T|T|C|T|C|T|C|G|C|A|T|A|T|A|G|T|G|G|G|G|A|T 368

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Qy 421 A|C|A|A|C|A|G|A|G|G|C|A|A|G|C|T|C|A|T|C 447

Db 429 A|C|A|G|T|A|C|G|A|C|T|G|C|A|T|C|T|C|A|T|C 455

RESULT 13

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US-08-612-973-5
? Sequence 5, Application US/08612973
? Patent No. 6150134
?
GENERAL INFORMATION:
? APPLICANT: MAERTENS, GEERT
? APPLICANT: BOSMAN, FONS
? APPLICANT: DE MARTYNOFF, GUY
? APPLICANT: BUYSE, MAIE-ANGE
? TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
? TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USES
? NUMBER OF SEQUENCES: 111
?
CORRESPONDENCE ADDRESS:
? ADDRESSEE: NIXON & VANDERHYE P.C.
? STREET: 1100 NORTH GLEBE ROAD
? CITY: ARLINGTON
? STATE: VIRGINIA
? COUNTRY: U.S.A.
? ZIP: 22201-4714
?
COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/612,973
? FILING DATE: 11-MAR-1996
? CLASSIFICATION: 435
?
ATTORNEY/AGENT INFORMATION:
? NAME: BYRNE, THOMAS E.
? REGISTRATION NUMBER: 32,205
? REFERENCE/DOCKET NUMBER: 1487-10
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (703) 816-4000
? TELEFAX: (703) 816-4100
?
INFORMATION FOR SEQ ID NO: 5:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 795 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? HYPOTHETICAL: NO
? ANTI-SENSE: NO
?
FEATURE:
? NAME/KEY: CDS
? LOCATION: 1..792

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; FEATURE: mat_peptide
; NAME/KEY: 1..789
; LOCATION:
US-08-612-973-5

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Query Match	69.5%;	Score 310.6;	DB 3;	Length 795;
Best Local Similarity	80.8%;	Pred. No. 6.2e-97;		
Matches 361;	Conservative 1;	Mismatches 85;	Indels 0;	Gaps 0;

QY	6	GACGGGGTAACTATGCAACAGGAGAAATTTGGCTGGTATGCTCTTCTATCTCTCTCTTA	6
Db	127	GACGGGGTAACTATGCAACAGGAGAAATTTGGCTGGTATGCTCTTCTATCTCTCTCTTG	186
QY	61	GCCTTTCTCTCTGCTTGAACGGTCTTCACTACCGCTCATAGAGTGGCCAAACGATCCGGG	120
Db	187	GCCTTCTCTCTCTGCTTGAACCGTCTTCAACCTTCGCTTATGAAAGGCCCAACGATCCGGG	246
QY	121	GTATATCATCTCAACCAATGACTGTGTCCAACTCGAGACATCATATGATGAGATGATG	180
Db	247	ATATACCATGTACGAAACGACTGTCTTCAACTCAGCATTTGTATATGAGGACGGGACATG	306
QY	181	ATCTTGCACGCCCCACAGGGTGTGTGTGCTTGCCTTGGGAGAAACACTTTCTGTGTG	240
Db	307	ATCATSCAACCCCCGGGGTGTGTGTGCTTGCCTTGGGAGAAACACTTTCTGTGTG	366
QY	241	ATGCCCTCAACCCCCACAGCTTGGGGTCAAAAGCTATATGTCTTACTGGGGCAATCCGA	300
Db	367	GTAGCCCTCAACCCCCACAGCTTGGGAACCCAGCGTCCCAACAAGAAATTAACGA	426
QY	301	CGGCATGTGCACTTGCTGGTGGGACAGCCGCTTTGGCTTCGGCTATGTACGTGGGGAC	360
Db	427	CGGCAGTGCATTTTGTCTGTTGGGGCGGCTCTTTCTGTTCGGCTATGTACGTGGGGAC	486
QY	361	CTCTGGGATTCGCTTCTCTGTGTGGCCAGCTATATCACTTTTCAACCCGCTGTACAT	420
Db	487	CTCTGGGATTCGTCTTCTCTGTCTCCAGCTGTATCAACATCTGCTCCGCGGCATGAG	546
QY	421	ACAACAAGAGATGCACCTGCTCAATC	447
Db	547	ACGGTGCAGACTGCACATTTGCTCAATC	573

RESULT 14

US-08-927-597-5
Sequence 5, Application US/08927597
Patent No. 6245503
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: BOSMAN, FONS
APPLICANT: DE MARTNOFF, GUY
APPLICANT: BUYS, MARIE-ANNE
TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHVE P. C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/927,597
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION NUMBER: US 08/612,973
FILING DATE: 11-MAR-1996

ATTORNEY/AGENT INFORMATION:
 NAME: BYRNE, THOMAS E.
 REGISTRATION NUMBER: 32,205
 REFERENCE/DOCKET NUMBER: 1487-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-4000
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 795 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..792
 FEATURE:
 NAME/KEY: mat peptide
 LOCATION: 1..789
 US-08-927-597-5

Query Match 69.5%; Score 310.6; DB 3; Length 795;
 Best Local Similarity 80.8%; Pred. No. 6.2e-97;
 Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATGACAGAGGAAATTTGCTGTTCTTTCTATCTTCTCTTA 60
 DB 127 GACGGCGTGAACATGACAGAGGAAATTTGCTGTTCTTTCTATCTTCTCTTA 186
 QY 61 GCTTTTCTGCTGCTGTTGACGGTTCCAACTACCGCTCATAGAGTGGCAAGCATCCGGG 120
 DB 187 GCTTTGCTGCTGCTGTTGACGGTTCCAACTACCGCTCATAGAGTGGCAAGCATCCGGG 246
 QY 121 GTATATCATCTCAACATGACTGTTCACACTCGACATCATATGAGATGAGTGTATG 180
 DB 247 ATGTACATGTACAGACAGATGCTTCAACTCAAGCATTTGTATGAGAGCGGACATG 306
 QY 181 ATCTTGACAGCCCGGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 307 ATCATGACACCCCGGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366
 QY 241 ATGCGCTACACCCCGGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 367 GTAGCGCTACACCCCGGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 426
 QY 301 CGCCATGTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 427 CGCCATGTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 486
 QY 361 CTCTGCGGATCCGTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 487 CTCTGCGGATCCGTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 546
 QY 421 ACAACAGAGAGTGAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 447
 DB 547 ACGGTGACAGAGTGAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 573

RESULT 15
 US-08-928-757-5
 Sequence 5, Application US/08928757
 Patent No. 6890737
 GENERAL INFORMATION:
 APPLICANT: MAERTENS, GERT
 BOSMAN, FONS
 DE MARTINOFF, GUY
 BUYSE, MARIE-ANGE
 TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
 NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:
 ADDRESSEE: NIXON & VANDERHAYE P.C.
 STREET: 1100 NORTH GLEBE ROAD
 CITY: ARLINGTON
 STATE: VIRGINIA
 COUNTRY: U.S.A.
 ZIP: 22201-4714
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/928,757
 FILING DATE: 12-Sep-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/612,973
 FILING DATE: 11-MAR-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: BYRNE, THOMAS E.
 REGISTRATION NUMBER: 32,205
 REFERENCE/DOCKET NUMBER: 1487-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-4000
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 795 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..792
 FEATURE:
 NAME/KEY: mat peptide
 LOCATION: 1..789
 SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 US-08-928-757-5
 Query Match 69.5%; Score 310.6; DB 3; Length 795;
 Best Local Similarity 80.8%; Pred. No. 6.2e-97;
 Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATGACAGAGGAAATTTGCTGTTCTTTCTATCTTCTCTTA 60
 DB 127 GACGGCGTGAACATGACAGAGGAAATTTGCTGTTCTTTCTATCTTCTCTTA 186
 QY 61 GCTTTTCTGCTGCTGTTGACGGTTCCAACTACCGCTCATAGAGTGGCAAGCATCCGGG 120
 DB 187 GCTTTGCTGCTGCTGTTGACGGTTCCAACTACCGCTCATAGAGTGGCAAGCATCCGGG 246
 QY 121 GTATATCATCTCAACATGACTGTTCACACTCGACATCATATGAGATGAGTGTATG 180
 DB 247 ATGTACATGTACAGACAGATGCTTCAACTCAAGCATTTGTATGAGAGCGGACATG 306
 QY 181 ATCTTGACAGCCCGGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
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 QY 241 ATGCGCTACACCCCGGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
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 QY 301 CGCCATGTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 427 CGCCATGTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 486
 QY 421 ACAACAGAGAGTGAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 447
 DB 547 ACGGTGACAGAGTGAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 573

Db 487 CTCTGGGATCTGTCTTCTCCTCGTCCAGAGTGTTCACCAATCTGGCTCGCGGATGAG 546

Qy 421 ACAACACGAGAGTGCACCTGCTCAATC 447
Db 547 ACGGTGACGACTGCATTTGCTCAATC 573

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Job time : 112.089 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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Perfect score: 223
Sequence: 1 atgagcagcaatccctaacc.....gcgcgcagccagagcgagcgt 223

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	223	100.0	652	3	US-08-836-075A-59
3	194.2	87.1	573	2	US-08-290-665A-147
4	194.2	87.1	573	6	PCT-US95-10398-147
5	192.6	86.4	573	2	US-08-290-665A-146
6	192.6	86.4	573	2	US-08-290-665A-148
7	192.6	86.4	573	6	PCT-US95-10398-146
8	192.6	86.4	573	6	PCT-US95-10398-148
9	192.6	86.4	831	3	US-08-836-075A-65
10	191.6	85.9	462	3	US-08-854-531-1
11	191.6	85.9	462	6	PCT-US95-13552-1
12	191.6	85.9	573	2	US-08-290-665A-121
13	191.6	85.9	573	6	PCT-US95-10398-121
14	191.6	85.9	780	3	US-08-474-700B-45
15	191.6	85.9	2433	3	US-08-612-973-49
16	191.6	85.9	2433	3	US-08-927-597-49
17	191.6	85.9	2433	3	US-08-928-757-49
18	191.6	85.7	573	2	US-08-290-665A-149
19	191.6	85.7	573	2	US-08-290-665A-153
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22	190	85.2	345	2	US-08-324-977-7
23	190	85.2	345	2	US-08-384-616-7
24	190	85.2	345	2	US-08-904-686A-7

25	190	85.2	345	3	US-09-315-850-7	Sequence 7, Appl
26	190	85.2	549	3	US-08-441-971-62	Sequence 62, Appl
27	190	85.2	549	3	US-08-441-971-63	Sequence 63, Appl
28	190	85.2	549	3	US-08-221-653-62	Sequence 62, Appl
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33	190	85.2	549	3	US-08-441-970-63	Sequence 62, Appl
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37	190	85.2	573	2	US-08-290-665A-114	Sequence 114, App
38	190	85.2	573	2	US-08-290-665A-117	Sequence 117, App
39	190	85.2	573	2	US-08-290-665A-118	Sequence 118, App
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41	190	85.2	573	6	PCT-US95-10398-109	Sequence 109, App
42	190	85.2	573	6	PCT-US95-10398-112	Sequence 112, App
43	190	85.2	573	6	PCT-US95-10398-113	Sequence 113, App
44	190	85.2	573	6	PCT-US95-10398-114	Sequence 114, App
45	190	85.2	573	6	PCT-US95-10398-117	Sequence 117, App

ALIGNMENTS

RESULT 1
US-08-836-075A-9
; Sequence 9, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-9

Query Match 100.0%; Score 223; DB 3; Length 223;
Best Local Similarity 100.0%; Pred. No. 1.4e-60;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACACCAACCGCGCCACAG 60
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCGCCACAG 60
QY 61 GACGTCAAGTTCCCGGCGGTGCGCAGATCGTTGTGAGCTTACGTCCTACCGCGCAG 120
DB 61 GACGTCAAGTTCCCGGCGGTGCGCAGATCGTTGTGAGCTTACGTCCTACCGCGCAG 120
QY 121 GGCCTAGATTGGGTGTGCGCGCAGCGCGGAACCTTCGAGCGGTCCGACCTCGTGG 180
DB 121 GGCCTAGATTGGGTGTGCGCGCAGCGCGGAACCTTCGAGCGGTCCGACCTCGTGG 180
QY 181 AGCGCCAACTATTTCCCAAGAGCGCGCACCCGAGGCGCAGT 223
DB 181 AGCGCCAACTATTTCCCAAGAGCGCGCACCCGAGGCGCAGT 223

RESULT 2

US-08-836-075A-59
Sequence 59, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKER
STREET: P.O. BOX 4433

CITY: HOUSTON
STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 59:

SEQUENCE CHARACTERISTICS:

LENGTH: 652 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-836-075A-59

Query Match 100.0%; Score 223; DB 3; Length 652;
Best Local Similarity 100.0%; Pred. No. 2e-60;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGACACGAATCTTAAACCTCAAGAAAAACCAAGAAACACCAACCGCGCCACAG 60
DB 239 ATGACACGAATCTTAAACCTCAAGAAAAACCAAGAAACACCAACCGCGCCACAG 298
QY 61 GACGTCAAGTTCCCGGCGGTGCGCAGATCGTTGTGAGCTTACGTCCTACCGCGCAG 120
DB 299 GACGTCAAGTTCCCGGCGGTGCGCAGATCGTTGTGAGCTTACGTCCTACCGCGCAG 358
QY 121 GGCCTAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTCGTGG 180
DB 359 GGCCTAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTCGTGG 418
QY 181 AGCGCCAACTATTTCCCAAGAGCGCGCACCCGAGGCGCAGT 223
DB 419 AGCGCCAACTATTTCCCAAGAGCGCGCACCCGAGGCGCAGT 461

RESULT 3

US-08-290-665A-147
Sequence 147, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BURKH, J., MILLER, R.H. AND
APPLICANT: PORCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & PINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 147:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

ORIGINAL SOURCE:

ORGANISM: homospapiens

INDIVIDUAL ISOLATE: SAs5

US-08-290-665A-147

Query Match 87.1%; Score 194.2; DB 2; Length 573;
Best Local Similarity 91.9%; Pred. No. 2.2e-51;
Matches 205; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
QY 61 GACGTCAGATTCCCGGGCGGTGGCCAGATCGTTGTGAGTCTACGTCGCGCAG 120
DB 61 GACGTCAGATTCCCGGGCGGTGGTCAGATCGTTGTGAGTCTACGTCGCGCAG 120
QY 121 GGCCTAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTGTGG 180
DB 121 GGCCTAGATTGGGTGTGCGCGCAGCTCGAAGACTTCGAGAACGTCGCAACCCGCTGG 180
QY 181 AGCGCCCAACTATTCCCAAGAGCGCGCACCCGAGGCGAGGT 223
DB 181 CGCGCCAGCTATTCTCCCAAGGCGCGCCACCCAGCGGCGGT 223

RESULT 4
PCT-US95-10398-147

; Sequence 147, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BORK, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/280/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: SAS
; PCT-US95-10398-147

Query Match 87.1%; Score 194.2; DB 6; Length 573;
Best Local Similarity 91.9%; Pred. No. 2.2e-51;

Matches 205; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
QY 61 GACGTCAGATTCCCGGGCGGTGGCCAGATCGTTGTGAGTCTACGTCGCGCAG 120
DB 61 GACGTCAGATTCCCGGGCGGTGGTCAGATCGTTGTGAGTCTACGTCGCGCAG 120
QY 121 GGCCTAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTGTGG 180
DB 121 GGCCTAGATTGGGTGTGCGCGCAGCTCGAAGACTTCGAGAACGTCGCAACCCGCTGG 180
QY 181 AGCGCCCAACTATTCCCAAGAGCGCGCACCCGAGGCGAGGT 223
DB 181 CGCGCCAGCTATTCTCCCAAGGCGCGCCACCCAGCGGCGGT 223

RESULT 5

US-08-290-665A-146
; Sequence 146, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BORK, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 146:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: SA4
; US-08-290-665A-146

Query Match 86.4%; Score 192.6; DB 2; Length 573;
Best Local Similarity 91.5%; Pred. No. 7.1e-51;
Matches 204; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60

Db 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
QY 61 GACGTCAAATTCCTCCGGCGGTGCGCCGATCGTTGGTGAAGTCTACGTCTACCGGCAG 120
Db 61 GACGTTAAATTCCTCCGGCGGTGCGCCGATCGTTGGTGAAGTCTACGTCTACCGGCAG 120
QY 121 GACCCCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGCGGTGCGCACTCGTGG 180
Db 121 GACCCCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGCGGTGCGCACTCGTGG 180
QY 181 AGCGCCCAACTATTCCTCAAGAGCGCGCAACCCGAGGCGAGGT 223
Db 181 CGCGCCGACGCTATTCCTCAAGAGCGCGCAACCCGAGGCGCGGT 223

RESULT 6
US-08-290-665A-148
Sequence 148, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BURKH, J., MILLER, R. H. AND
APPLICANT: PORCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: SA7
US-08-290-665A-148

Query Match 86.4%; Score 192.6; DB 2; Length 573;
Best Local Similarity 91.5%; Pred. No. 7.1e-51;
Matches 204; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
QY 61 GACGTCAAATTCCTCCGGCGGTGCGCCGATCGTTGGTGAAGTCTACGTCTACCGGCAG 120

Db 61 GACGTCAAATTCCTCCGGCGGTGCGCCGATCGTTGGTGAAGTCTACGTCTACCGGCAG 120
QY 121 GACCCCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGCGGTGCGCACTCGTGG 180
Db 121 GACCCCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGCGGTGCGCACTCGTGG 180
QY 181 AGCGCCCAACTATTCCTCAAGAGCGCGCAACCCGAGGCGAGGT 223
Db 181 CGCGCCGACGCTATTCCTCAAGAGCGCGCAACCCGAGGCGCGGT 223

RESULT 7
PCT-US95-10398-146
Sequence 146, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BURKH, J., MILLER, R. H. AND
APPLICANT: PORCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 146:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: SA4
PCT-US95-10398-146

Query Match 86.4%; Score 192.6; DB 6; Length 573;
Best Local Similarity 91.5%; Pred. No. 7.1e-51;
Matches 204; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCGCCACAG 60
QY 61 GACGTCAAATTCCTCCGGCGGTGCGCCGATCGTTGGTGAAGTCTACGTCTACCGGCAG 120

Db 61 GACGTTAAGTTCGGGGGGGTGGTCAAGATCGTTGGTGGAGCTACTTGTGGCCGCCAAG 120

Qy 121 GGCCCTAAGTTGGGTGTGCGCGCAGCGCGAAGACTTCCGAGCGGTGCACTCGTGGG 180

Db 121 GGCCCTAAGTTGGGTGTGCGCGCAGCTCGAAGACTTCAGAAAGGTGCGCAACCCCGTGGG 180

Qy 181 AGGCGCAACTATTCCCAAGAGAGCGCGACCCCGAAGGGAGGT 223

Db 181 CGGCGCGACCTATTCCCAAGAGCGCGCAACCCAGCGGCGGT 223

RESULT 8

PCT-US95-10398-148
 Sequence 148, Application PC/TUS9510398
 GENERAL INFORMATION:
 APPLICANT: BURKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF ISOLATES DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/10398
 FILING DATE: 15-AUG-1995
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/086,428
 FILING DATE: 29 JUNE 1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/290/665
 FILING DATE: 15 AUGUST 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 148:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: hominapiens
 INDIVIDUAL ISOLATE: SA7

QY	61	AACGCAAGTTC	CGGCGG	GTGGCC	AGANCG	TGGTAG	AGTC	TACGT	TACCG	CAAG	120	
Db	61	GACGTCAAGTTC <th>CGGCGG</th> <th>GTGGCC</th> <th>AGANCG</th> <th>TGGTAG</th> <th>AGTC</th> <th>TACGT</th> <th>TACCG</th> <th>CAAG</th> <th>120</th>	CGGCGG	GTGGCC	AGANCG	TGGTAG	AGTC	TACGT	TACCG	CAAG	120	
QY	121	GACCCCTAAT	TGGG	GTGTCG	CGCG	CAGCGG	GAAGA	CTTCG	CGAG	CGGTCG	CAACTCG	TGGG
Db	121	GACCCCTAAT	TGGG	GTGTCG	CGCG	CAGCGG	GAAGA	CTTCG	CGAG	CGGTCG	CAACTCG	TGGG
QY	121	GACCCCTAAG <th>TTGG</th> <th>GTGTCG</th> <th>CGCG</th> <th>CACTCG</th> <th>GAAG</th> <th>ACTTC</th> <th>CAAG</th> <th>CGGTCG</th> <th>CAACCCCG</th> <th>TGGG</th>	TTGG	GTGTCG	CGCG	CACTCG	GAAG	ACTTC	CAAG	CGGTCG	CAACCCCG	TGGG
Db	121	GACCCCTAAG <th>TTGG</th> <th>GTGTCG</th> <th>CGCG</th> <th>CACTCG</th> <th>GAAG</th> <th>ACTTC</th> <th>CAAG</th> <th>CGGTCG</th> <th>CAACCCCG</th> <th>TGGG</th>	TTGG	GTGTCG	CGCG	CACTCG	GAAG	ACTTC	CAAG	CGGTCG	CAACCCCG	TGGG
QY	181	AGGCGCAACT	ATCC	CAAG	GAAG	CGCG	CAACCC	CGAG	GGCG	AGGT	223	
Db	181	CGGCGCAACT	ATCC	CAAG	GAAG	CGCG	CAACCC	CGAG	GGCG	AGGT	223	

RESULT 9
ME = 09 = 93

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Db 76 GAGCTCAAGTCCCGGCGGTGGCGAGATCGTGTGAGATTACTGTTGCCGCGCAGG 135
QY 121 GGGCCCTAGATTGGGTGTGGCGGAGGCGGGAAGACTTTCGAGCGGTCCGAACTCGTGGG 180
Db 136 GGGCCCTAGATTGGGTGTGGCGGAGACTGAGAAAGACTTTCGAGCGGTCCGAACTCGTGGG 195
QY 181 AGGCGCCAACTTATTCCTCAAGAGAGCGCGGAGCGGCGGAGGCGGAGG 223
Db 196 AGGCGCAAGCTTATTCCTCAAGGCTCCCGCATCCGAGGCGAGGT 238

RESULT 10
US-08-854-531-1
; Sequence 1, Application US/08854531
; Patent No. 6025341
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack
; APPLICANT: Tokushige, Katsutoshi
; APPLICANT: Makita, Takaji
; TITLE OF INVENTION: CHIMERIC HEPATITIS B/HEPATITIS C VIRUS VACCINE
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 6025341iris
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/854,531
; FILING DATE: Herewith
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: APOL-0214
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 462 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-854-531-1

Query Match 85.9%; Score 191.6; DB 3; Length 462;
Best Local Similarity 91.4%; Pred. No. 1.4e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
QY 61 GAGCTCAAGTCCCGGCGGTGGCGAGATCGTTGTGAGTCTACGTTACCGCGCAGG 120
Db 61 GAGCTCAAGTCCCGGCGGTGGCGAGATCGTTGTGAGTCTACGTTACCGCGCAGG 120
QY 121 GGGCCCTAGATTGGGTGTGGCGGAGCGCGGAAAGACTTTCGAGCGGTCCGAACTCGTGGG 180
Db 121 GGGCCCTAGATTGGGTGTGGCGGAGCTTACGTTACCGTTACCGTGGCGGAGG 120
QY 181 AGGCGCCAACTTATTCCTCAAGAGAGCGCGGAGCGGCGGAGGCGGAGG 222
Db 181 AGGCGCAAGCTTATTCCTCAAGAGATCGCGGCGCGAGGCGCAGG 222

RESULT 11
PCT-US95-13552-1
; Sequence 1, Application PC/TUS9513552
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack
; APPLICANT: Tokushige, Katsutoshi
; APPLICANT: Makita, Takaji
; APPLICANT: Pachuk, Catherine J.
; APPLICANT: Zurawski, Jr., Vincent R.
; APPLICANT: Coney, Leslie R.
; TITLE OF INVENTION: HEPATITIS VIRUS VACCINES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz &
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/13552
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/318,248
; FILING DATE: 05-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/467,859
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: APOL-0238
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 462 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; PCT-US95-13552-1

Query Match 85.9%; Score 191.6; DB 6; Length 462;
Best Local Similarity 91.4%; Pred. No. 1.4e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
QY 61 GAGCTCAAGTCCCGGCGGTGGCGAGATCGTTGTGAGTCTACGTTACCGCGCAGG 120
Db 61 GAGCTCAAGTCCCGGCGGTGGCGAGATCGTTGTGAGTCTACGTTACCGCGCAGG 120
QY 121 GGGCCCTAGATTGGGTGTGGCGGAGCGCGGAAAGACTTTCGAGCGGTCCGAACTCGTGGG 180
Db 121 GGGCCCTAGATTGGGTGTGGCGGAGCTTACGTTACCGTTACCGTGGCGGAGG 120
QY 181 AGGCGCCAACTTATTCCTCAAGAGAGCGCGGAGCGGCGGAGGCGGAGG 222
Db 181 AGGCGCAAGCTTATTCCTCAAGAGATCGCGGCGCGAGGCGCAGG 222

RESULT 12
 US-08-290-665A-121
 ; Sequence 121, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUCH, J., MILLER, R. H. AND
 ; APPLICANT: PURCELL, R. H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & PINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 121:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: HK5
 ; US-08-290-665A-121

Query Match 85.9%; Score 191.6; DB 2; Length 573;
 Best Local Similarity 91.4%; Pred. No. 1.5e-50;
 Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAAAGAACCAACCGCGCCACAG 60
 DB 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAAAGAACCAACCGCGCCACAG 60
 QY 61 GACGTCAGATTCCTGCGGCGGTGCGGAGATCGTTGGAGATTACCTGTGCGGCAAG 120
 DB 61 GACGTCAGATTCCTGCGGCGGTGCGGAGATCGTTGGAGATTACCTGTGCGGCAAG 120
 QY 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 DB 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 QY 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 DB 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 QY 181 AGGCGCAACTATTCCTCAAGAGAGCGCGACCGCGAGGCGCAGG 222
 DB 181 AGGCGCAACTATTCCTCAAGAGAGCGCGACCGCGAGGCGCAGG 222

RESULT 13
 PCT-US95-10398-121
 ; Sequence 121, Application PC/TUS9510398
 ; GENERAL INFORMATION:

APPLICANT: BUCH, J., MILLER, R. H. AND
 APPLICANT: PURCELL, R. H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & PINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/10398
 FILING DATE: 15-AUG-1995
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/086,428
 FILING DATE: 29 JUNE 1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/290/665
 FILING DATE: 15 AUGUST 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 121:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: HK5
 PCT-US95-10398-121

Query Match 85.9%; Score 191.6; DB 6; Length 573;
 Best Local Similarity 91.4%; Pred. No. 1.5e-50;
 Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAAAGAACCAACCGCGCCACAG 60
 DB 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAAAGAACCAACCGCGCCACAG 60
 QY 61 GACGTCAGATTCCTGCGGCGGTGCGGAGATCGTTGGAGATTACCTGTGCGGCAAG 120
 DB 61 GACGTCAGATTCCTGCGGCGGTGCGGAGATCGTTGGAGATTACCTGTGCGGCAAG 120
 QY 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 DB 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 QY 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 DB 121 GGCCTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTCTGTGG 180
 QY 181 AGGCGCAACTATTCCTCAAGAGAGCGCGACCGCGAGGCGCAGG 222
 DB 181 AGGCGCAACTATTCCTCAAGAGAGCGCGACCGCGAGGCGCAGG 222

RESULT 14
 US-08-474-700B-45
 ; Sequence 45, Application US/08474700B

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; Patent No. 6001990
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack
; APPLICANT: Wakita, Takaji
; APPLICANT: Moradpour, Darius
; TITLE OF INVENTION: ANTISENSE INHIBITION OF HEPATITIS C
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,700B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/240,382
; FILING DATE: 10 May 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00786/279001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 780 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-474-700B-45
;
Query Match      85.9%; Score 191.6; DB 3; Length 780;
Best Local Similarity 91.4%; Pred. No. 1.6e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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QY      1 ATGAGCAGCAATCTCTTAACCTCAAGAAAAACCAAAAGAAACCAACCGCCGCCACAG 60
DB      342 ATGAGCAGCAATCTCTTAACCTCAAGAAAAACCAAAAGAAACCAACCGCCGCCACAG 401
QY      61 GACGCTCAAGTCCCGGGGGGCGGCGAGATCGTTGGTGGAGTCTAGCGTCTACCGGCGAG 120
DB      402 GACGCTCAAGTCCCGGGGGGCGGCGAGATCGTTGGTGGAGTCTAGCGTCTACCGGCGAG 461
QY      121 GGCCTTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGAGCGGTGCGCACTCGTGGG 180
DB      462 GGCCTTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGAGCGGTGCGCACTCGTGGG 521
QY      181 AGCGCCCAACTATTTCCCAAGAGCGCGCAACCCGAGGGCGAG 222
DB      522 AGCGCCCAACTATTTCCCAAGAGCGCGCAACCCGAGGGCGAG 563
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RESULT 15
US-08-612-973-49
; Sequence 49, Application US/08612973
; Patent No. 6150134
; GENERAL INFORMATION:
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; APPLICANT: MAERTENS, GEBERT
; APPLICANT: BOSMAN, FONS
; APPLICANT: DE MARTYNOFF, GUY
; APPLICANT: BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
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; TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2433 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..2427
;
US-08-612-973-49
;
Query Match      85.9%; Score 191.6; DB 3; Length 2433;
Best Local Similarity 91.4%; Pred. No. 2.4e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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QY      1 ATGAGCAGCAATCTCTTAACCTCAAGAAAAACCAAAAGAAACCAACCGCCGCCACAG 60
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Search completed: January 11, 2006, 04:37:40
Job time : 56.4201 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 237.834 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-11

Perfect score: 957

Sequence: 1 atgagcagcagcaccctcaaac.....taagcgccacccgmmmmnn 957

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	930	97.2	957	3	US-08-836-075A-11
2	674	70.4	1167	2	US-08-324-977-9
3	674	70.4	1167	2	US-08-384-616-9
4	674	70.4	1167	2	US-08-904-686A-9
5	674	70.4	1167	2	US-08-324-977-3
6	674	70.4	1167	2	US-08-324-977-3
7	674	70.4	1167	2	US-08-384-616-3
8	674	70.4	1167	2	US-08-904-686A-3
9	674	70.4	1167	2	US-08-324-977-11
10	674	70.4	1167	2	US-08-384-616-11
11	674	70.4	1167	2	US-08-904-686A-11
12	674	70.4	1167	2	US-08-324-977-13
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21	674	70.4	1167	2	US-08-324-977-11
22	674	70.4	1167	2	US-08-384-616-11
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25	672.4	70.3	2433	3	US-08-928-757-49	Sequence 49, Appl
26	666	69.6	1539	2	US-08-470-426B-17	Sequence 17, Appl
27	666	69.6	1863	2	US-08-470-426B-14	Sequence 14, Appl
28	662.8	69.3	11076	3	US-09-539-601-1	Sequence 1, Appl
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30	662.8	69.3	11076	3	US-09-539-601-25	Sequence 25, Appl
31	662.8	69.3	11076	3	US-09-539-601-31	Sequence 31, Appl
32	661.2	69.1	9472	3	US-08-150-204B-96	Sequence 96, Appl
33	658	68.8	2116	3	US-08-191-160-21	Sequence 21, Appl
34	658	68.8	9413	3	US-09-827-668-6	Sequence 6, Appl
35	658	68.8	9595	3	US-09-014-416-4	Sequence 4, Appl
36	658	68.8	9599	3	US-09-014-416-6	Sequence 39, Appl
37	656.4	68.6	9275	3	US-10-259-275-39	Sequence 3, Appl
38	651.6	68.1	1037	2	US-08-462-195-1	Sequence 1, Appl
39	651.6	68.1	1037	2	US-08-636-883-1	Sequence 1, Appl
40	651.6	68.1	1037	3	US-09-127-829-1	Sequence 1, Appl
41	640.4	66.9	1037	2	US-08-462-195-3	Sequence 19, Appl
42	640.4	66.9	1037	2	US-08-636-883-3	Sequence 3, Appl
43	640.4	66.9	1037	2	US-09-127-829-3	Sequence 3, Appl
44	637.2	66.6	9599	3	US-09-014-416-2	Sequence 2, Appl
45	637.2	66.6	9646	3	US-08-811-566-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-11
; Sequence 11, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-11

Query Match 97.2%; Score 930; DB 3; Length 957;
Best Local Similarity 100.0%; Pred. No. 8.8e-267;
Matches 950; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2

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; Sequence 9, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McIreland &
; STREET: 1725 K St., N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
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; FEATURE:
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; LOCATION: 1..1167
; US-08-324-977-9
; Query Match 70.4%; Score 674; DB 2; Length 1167;
; Best Local Similarity 81.1%; Pred. No. 1.8e-190;
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Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

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; Sequence 9, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto

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APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
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APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1167 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
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FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-384-616-9

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Query Match 70.4%; Score 674; DB 2; Length 1167;
Best Local Similarity 81.1%; Pred. No. 1.8e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;
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```

; ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904, 686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324, 977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099, 706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769, 996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635, 451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..1167
; OTHER INFORMATION: /note="sequence = 333 - 1499 of
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1167
;
US-08-904-686A-9
;
Query Match 70.4%; Score 674; DB 2; Length 1167;
Best Local Similarity 81.1%; Pred. No. 1..8e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;
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Db      1 ATGACGACGATCTCTAAACCTTAAGAAAAACCAACGACACCAACCGCGCCACAG 60
Qy      61 GACGTTAATTCCCGGGTGGGGGCGAGATCGTGGGTGAGTTACTTGTGGCGGCGCAG 120
Db      61 GACGTCAGTTCCTCCGGGCGGTGTGCAGATCGTGGGTGAGTTACTTGTGGCGGCGCAG 120
Qy      121 GGGCCCCAGGTTGGGTGTGGCCGACGAGAGAGACTTCCGACCGGTCCGAACTCTGCCGA 180

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Db      121 GGGCCGAGGTGGGTGTGCGCGCGCCAGAGAACTCCGAGCGGTGCGCAACTCGTGA 180
      181 AGGCGACAGCTATCCCAAGGCTCGCCGACCCGAGGGAGGTCCTGGGCTCAGGCTGAG 240
      181 AGGCGCAAACTATCCCAAGGCTCGCCGACCCGAGGGAGGTCCTGGGCTCAGGCTGAG 240
      241 TACCCATGAGCCCTCTATGCTAAGAGGGCTGCGGATGAGGCTGCTGCTGCTGCT 300
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      361 AAGGTATGATATCCCTTAAGTGTGCTGCGGATGCTGATGAGGGGATGATCCGCTGCT 420
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      601 TACCATGCTATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
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      721 CGGCTACCCGACGCTGCGACGCGGGATGCGGAACGCTCCCATGATGATGCTGCTGCT 780
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      781 CAGCTGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
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US-09-315-850-9
Sequence 9, Application US/09315850

Patent No. 6217872
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000

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? CITY: Washington
? STATE: D.C.
? COUNTRY: U.S.A.
? ZIP: 20006
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
? OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
? SOFTWARE: ASCII
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/315, 850
? FILING DATE:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US/08/904, 686
? FILING DATE: 01-AUG-1997
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? FILING DATE: 18-OCT-1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 2-167466
? FILING DATE: 25-JUN-1990
? APPLICATION NUMBER: JP 2-230921
? FILING DATE: 31-AUG-1990
? PRIOR APPLICATION DATA:
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? FILING DATE: 09-NOV-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/099, 706
? FILING DATE: 30-JUL-1993
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/769, 996
? FILING DATE: 02-OCT-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/635, 451
? FILING DATE: 28-DEC-1990
? ATTORNEY/AGENT INFORMATION:
? NAME: Mclelland, Le-Nhung
? REGISTRATION NUMBER: 31,541
? REFERENCE/DOCKET NUMBER: 900703G
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (202) 659-2930
? TELEFAX: (202) 887-0357
? INFORMATION FOR SEQ ID NO: 9:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1167 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA from genomic RNA
? FEATURE:
? NAME/KEY: misc feature
? LOCATION: 1..1167
? OTHER INFORMATION: /note="sequence = 333 - 1499 of
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? FEATURE:
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? LOCATION: 1..1167
? US-09-315-850-9

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Query Match 70.4%; Score 674; DB 3; Length 1167;
Best Local Similarity 81.1%; Pred. No. 1,88-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

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QY      1 ATGAGCAGGATCTTAACCTCAAGAAAAACCAAGCAACCAACCGCCGACAG 60
      1 ATGAGCAGGATCTTAACCTCAAGAAAAACCAAGCAACCAACCGCCGACAG 60
Db      61 GACCTAAATCCCGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
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Db      421 GGGCGCCCCCTTGGGGGGGCTTCCAGAACCTGACGATGATGATGATGATGATGATGATG 480
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Db      541 TTACTCTCTGCTCAAGTATCCCACTTCTGCTTATGAGGTGACAGCAACCGATGGC 600
Qy      601 TACCATGCTAATGATGCTGTCGACAGGAGAGATGATGATGAGGCAAGGACATATC 660
Db      601 TACCATGCTAATGATGCTGTCGACAGGAGAGATGATGATGAGGCAAGGACATATC 660
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Db      661 ATGCAATACCTGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
Qy      721 CGGCTACACCCCAAGCTGCGAGGCGGATGCGGAGGCTTCCATGATGATGAGTGGGCT 780
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Qy      781 CAGGTGACCTCTGCTGAGGAGGAGCGGATGCTGCTGACGATGATGATGATGATGATG 840
Db      781 CAGGTGACCTCTGCTGAGGAGGAGCGGATGCTGCTGACGATGATGATGATGATGATG 840
Qy      841 TGTGGGGGCTCTTCTGCTGAGGCAATGTTCACTTCACTTCACTTCCGCGGCGGATGGAG 900
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Qy      901 GTGCGAGACTGTAATGTTGTTCACTTCTGCGGCAATAGCGGCGGCGGCGGCGGCGG 950
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RESULT 6
US-08-324-977-3
Sequence 3, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:

APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
City: Washington

```

STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20006  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
SOFTWARE: ASCII  
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APPLICATION NUMBER: US/08/324,977  
FILING DATE: 18-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-167466  
FILING DATE: 25-JUN-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-230921  
FILING DATE: 31-AUG-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-305605  
FILING DATE: 09-NOV-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/099,706  
FILING DATE: 30-JUL-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/769,996  
FILING DATE: 02-OCT-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/635,451  
FILING DATE: 28-DEC-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Stevens-Smith, Theresa M.  
REGISTRATION NUMBER: 36,281  
REFERENCE/DOCKET NUMBER: 900703D  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 659-2950  
TELEFAX: (202) 887-0357  
TELEX: 440142  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1499 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA from genomic RNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 333..1499  
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NAME/KEY: misc feature  
LOCATION: 1..1499  
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US-08-324-977-3  
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Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;  
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Db      453 GAGCCAGGTTGGGTGCGCGAGAGGAGAGACTTCCGAGCGGTGCAACTTGGCGAG 512  
Qy      181 AGGCGACAGCTATATCCCAAGGCTGCGGACCCGAGGGGAGGTCTTGAGGCTTACGCT 240  
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Db	693	AAGGTATGATGATACCTTCA	CATGGCTTCCCGGATCTCATGGGGGTACATTCCGCTCGTC	752
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OY	781	CACGTGACCTCTGTGG	GGGGGCAAGCGGTTCTGTACGACATGATATGGGGACCTT	840
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1 RESULT 7
2 US-08-384-616-3
3 Sequence 3, Application US/08384616
4 Patent No. 5847101
5 GENERAL INFORMATION:
6 APPLICANT: OKAYAMA, Hiroto
7 APPLICANT: FUKU, Isao
8 APPLICANT: MORI, Chisato
9 APPLICANT: TAKAMIZAWA, Akahisa
10 APPLICANT: YOSHIDA, Iwao
11 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
12 TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
13 NUMBER OF SEQUENCES: 50
14 CORRESPONDENCE ADDRESS:
15 ADDRESS: Armstrong, Westernman, Hattori, McJeland &
16 ADDRESSEE: Naughton
17 STREET: 1725 K St. N.W. Suite 1000
18 CITY: Washington
19 STATE: D.C.
20 COUNTRY: U.S.A.
21 ZIP: 20006
22 COMPUTER READABLE FORM:
23 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB

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1  COMPUTER: IBM PC compatible
2  OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
3  SOFTWARE: ASCII
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5  CURRENT APPLICATION DATA:
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7  FILING DATE:
8  CLASSIFICATION: 424
9  PRIOR APPLICATION DATA:
10 APPLICATION NUMBER: US 07/769,996
11 FILING DATE: 02-OCT-1991
12 APPLICATION NUMBER: JP 2-167466
13 FILING DATE: 25-JUN-1990
14 PRIOR APPLICATION DATA:
15 APPLICATION NUMBER: JP 2-230921
16 FILING DATE: 31-AUG-1990
17 PRIOR APPLICATION DATA:
18 APPLICATION NUMBER: JP 2-305605
19 FILING DATE: 09-NOV-1990
20 PRIOR APPLICATION DATA:
21 APPLICATION NUMBER: US 07/635,451
22 FILING DATE: 28-DEC-1990
23 ATTORNEY/AGENT INFORMATION:
24 NAME: Stevens-Smith, Theresa M.
25 REGISTRATION NUMBER: 36,281
26 REFERENCE/DOCKET NUMBER: 900703B
27 TELECOMMUNICATION INFORMATION:
28 TELEPHONE: (202) 659-2930
29 TELEFAX: (202) 887-0357
30 TELEX: 440142
31 INFORMATION FOR SEQ ID NO: 3:
32 SEQUENCE CHARACTERISTICS:
33     LENGTH: 1499 base pairs
34     TYPE: nucleic acid
35     STRANDEDNESS: single
36     TOPOLOGY: linear
37     MOLECULE TYPE: cDNA from genomic RNA
38     FEATURE:
39     NAME/KEY: CDS
40     LOCATION: 333..1499
41     FEATURE:
42     NAME/KEY: misc feature
43     LOCATION: 1..1499
44     OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
45     OTHER INFORMATION: ID NO: 1"
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	Query Match Best Local Similarity	70.4%; 81.1%;	Score 674; Pred. No. 2.1e-190;	DB 2;	Length 1499;	
	Matches	770;	Conservative	0;	Mismatches 180;	Indels 0; Gaps 0
QY	1	ATGAGCAGCATCTCTAATCCTCAAGAAAAACCAACCGAACCGCGCCACAG	60			
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QY	121	GGCCCCAGTTGGGTGTGTGCGCGCAGCAGAAAGACTTCGAGCGGTGCGAACCTGCGCGA	180			
Db	453	GGCCCCAGTTGGGTGTGTGCGCGCCCGCAGAAAGCTTCGAGCGGTGCGAACCTGTGTGA	512			
QY	181	AGCGCAGAGCCTATCCCAAGGCTTGCGCAACCCAGGGCAGTCTTGAGGCTCAGCCTGG	240			
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QY	301	CGCGGCTTCGCTCTAGCTGGGGGCCCAATGACCCCGCAGCTAATATCAGCAATTTGGGT	360			
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DB 873 CTGCTGTCTGCTTGAACCCAGCTTCCGCTTATGAGAGTCAACAGTGTCCGGAGTA 932
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RESULT 8 US-08-904-686A-3

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; Sequence 3, Application US/08904686A
; Patent No. 598130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977

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; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
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; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; NAME/KEY: misc feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
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; US-08-904-686A-3

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Query Match 70.4%; Score 674; DB 2; Length 1499;
Best Local Similarity 81.1%; Pred. No. 2,1e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

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QY 1 ATGAGCAGCATCTTAACCTTAAGAAAGAAACCAACGACACCAACCGCCGACAG 60
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DB 573 TACCATGGCCCTCTATAGCTTAACGAGGCTTATAGGTTGGGACAGATGGCTCTGTCCACC 632
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DB 633 CCGGCTCCGCTCTAGCTAGTGGGCGCCCAATGACCCCGGACGTAATGATGCTGATTTGGT 692
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Db 693 AAGTCATCATGATACCTCATAGCGGCTTCCGATCTCATAGGGATACATTCCTGCTGTC 752
 Qy 421 GGGCGCCCCCTAGGGGGGGCTTCCAGAACCTGNCATAGTGTCCGGGCTCTGAGAGC 480
 Db 753 GGGCGCCCCCTAGGGGGGGCTTCCAGAACCTGNCATAGTGTCCGGGCTCTGAGAGC 812
 Qy 481 GGGCGTANNNNNNNNNNNNAACTTCCGATGCTCTTNNCTATCTTCTCTGAGCN 540
 Db 813 GGGCGTAACTAGCAAGAGGAGATGTGCGGCTCTTTTTCATCTTCTCTGAGCT 872
 Qy 541 TTACTCTTGTGCTCAGAGTCCCACTCTGCTATAGAGTGCACAGCAACCGATGCG 600
 Db 873 CTGCTCTCTCTGAGCAACCCCAAGCTTCCGCTTACGAAGTGCACAACTGTGCGGAGTA 932
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 Db 1233 TTACAGGACTGTAATGTTTCAATTTACTGTGAGCAATATGAGGAGCGGAGCT 1282

RESULT 9

US-09-315-850-3
 : Sequence 3, Application US/09315850
 : Patent No. 6217872
 : GENERAL INFORMATION:
 : APPLICANT: OKAYAMA, Hiroto
 : APPLICANT: FUKE, Isao
 : APPLICANT: MORI, Chisato
 : APPLICANT: TAKAMIZAWA, Akahisa
 : APPLICANT: YOSHIDA, Iwao
 : TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 : TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 : NUMBER OF SEQUENCES: 50
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Armstrong, Westerman, Hattori, McIeland &
 : STREET: 1725 K St. N.W. Suite 1000
 : CITY: Washington
 : STATE: D.C.
 : COUNTRY: U.S.A.
 : ZIP: 20006
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 : SOFTWARE: ASCII
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/09/315,850
 : FILING DATE:
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US/08/904,686
 : FILING DATE: 01-AUG-1997
 : APPLICATION NUMBER: US 08/324,977
 : FILING DATE: 18-OCT-1994

: PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: JP 2-167466
 : FILING DATE: 25-JUN-1990
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: JP 2-230921
 : FILING DATE: 31-AUG-1990
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: JP 2-305605
 : FILING DATE: 09-NOV-1990
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/099,706
 : FILING DATE: 30-JUL-1993
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 07/769,996
 : FILING DATE: 02-OCT-1991
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 07/635,451
 : FILING DATE: 28-DEC-1990
 : ATTORNEY/AGENT INFORMATION:
 : NAME: McIeland, Le-Nhung
 : REGISTRATION NUMBER: 31,541
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (202) 659-2930
 : TELEFAX: (202) 887-0357
 : INFORMATION FOR SEQ ID NO: 3:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1499 base pairs
 : TYPE: nucleic acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: cDNA from genomic RNA
 : FEATURE:
 : NAME/KEY: CDS
 : LOCATION: 333..1499
 : NAME/KEY: misc feature
 : LOCATION: 1..1499
 : OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
 : OTHER INFORMATION: ID NO: 1"
 : US-09-315-850-3
 : Query Match 70.4%; Score 674; DB 3; Length 1499;
 : Best Local Similarity 81.1%; Pred. No. 2, 1e-190;
 : Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;
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 : Qy 61 GAGCTTAATTTCCGGGTGGGGGAGATGCTGGGTGGAATTATCTTGTCCGCGAG 120
 : Db 393 GAGCTCAAGTTCCGGGGGAGTGTGATGTTGGTGAATTAACTGTGCGCGAG 452
 : Qy 121 GGGCCCAAGTTGGGTGCGCGAGAGGAAGACTTCCGAGCGGTGCAACTCGCGGA 180
 : Db 453 GGGCCCAAGTTGGGTGCGCGAGAGGAAGACTTCCGAGCGGTGCAACTCGCGGA 512
 : Qy 181 AGGCGACAGCTATCCCAAGGCTCGCCGACCGAGGGAGGTCTTGAGCTCAAGCTGAG 240
 : Db 513 AGGCGACAGCTATCCCAAGGCTCGCCGAGCGAGGGAGGAGCTTGAGCTCAAGCTGAG 572
 : Qy 241 TACCATAGGCGCTCTATGCTAACAGAGGCTGCGAGTGGCGGAGTGGCTCTGCTCCCT 300
 : Db 573 TACCTTGGCTCTCTATAGCAATGAGGGCTTGAAGGGGAGAGATGAGCTCTGTCAACC 632
 : Qy 301 CGCGGCTCCGCTCTAGCTGGGCGCCCAATGACCCCGAGAGTATGATCAAGCAATTTGGGT 360
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 : Qy 361 AAGGTATCATACCTTAACGATGTGCTTGCAGATCTCATAGGGATACATTCGCTGTC 420
 : Db 693 AAGGTATCATACCTTAACGATGTGCTTGCAGATCTCATAGGGATACATTCGCTGTC 752

QY 421 GGGCCCCCTTGGGGGGGCTTCCAGAACCTGNCACATGGTGTCCGGGCTCGNAGGC 480
Db 753 GGGCCCCCTTGGGGGGGCTTCCAGAACCTGNCACATGGTGTCCGGGCTCGNAGGC 812
QY 481 GGGCTGATNNNNNNNNNNNAACCTTCCNGATTGCTTTNNCTATCTTCTTGGCN 540
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QY 541 TTACTCTTCTTCCCTCAGAGTCCCACTCTGCTATGAGGTGACAGACCAACGATGAC 600
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QY 601 TACCATGCACTAATGATGATTTTCCAAACGGGACATGCAATGAGGCAAAAGACATCATC 660
Db 933 TATCATGTACGAACGAGTCTCTCCAAACGCAATGTGTATGAGGACGCGGACTTGATC 992
QY 661 CTTCACACGCTGGGTGNGTCCCTGCAATACGGGAAGCAATATCTCCCTTGTGGTGA 720
Db 993 ATGCATATCTCTGGGTGCGTCCCTGCGTTCGGGAAGCAATCTCCCTGCTGGGTGA 1052
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RESULT 10

US-08-324-977-11

Sequence 11, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
TITLE OF INVENTION: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, McJeland &
ADDRESS: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-324-977-11

Query Match 70.4%; Score 674; DB 2; Length 6039;
Best Local Similarity 81.1%; Pred. No. 4.1e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGCAACCAACCGCCGCCACAG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGCAACCAACCGCCGCCACAG 60
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RESULT 11
 US-08-384-616-11
 Sequence 11, Application US/08384616
 Patent No. 5847101
 GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McJeland &
 ADDRESSEE: Naughton
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/384,616
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605

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1      FILING DATE: 09-NOV-1990
2
3      PRIOR APPLICATION DATA:
4
5      APPLICATION NUMBER: US 07/635,451
6
7      FILING DATE: 28-DEC-1990
8
9      ATTORNEY/AGENT INFORMATION:
10
11      NAME: Stevens-Smith, Theresa M.
12
13      REGISTRATION NUMBER: 36,281
14
15      REFERENCE/DOCKET NUMBER: 900703B
16
17      TELECOMMUNICATION INFORMATION:
18
19      TELEPHONE: (202) 659-2930
20
21      TELEFAX: (202) 887-0357
22
23      TELEX: 440142
24
25      INFORMATION FOR SEQ ID NO: 11:
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27      SEQUENCE CHARACTERISTICS:
28
29      LENGTH: 6039 base pairs
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31      TYPE: nucleic acid
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33      STRANDEDNESS: single
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35      TOPOLOGY: linear
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37      MOLECULE TYPE: cDNA from genomic RNA
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51      LOCATION: 1..6039
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Query Match	70.4%;	Score 674;	DB 2;	Length 6039;
Best Local Similarity	81.1%;	Pred. NO. 4.1e-190;		
Matches 770; Conservative	0;	Mismatches 180;	Indels 0;	Gaps 0;

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Oy	421	GGGGCCCCCTTAGGGGGCGCTTCAGAAACCTGACACATGGTGTCCGGGTCTTGAGAGGC	480
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Qy	601	TACCAATGTCATTAATACACTGTTCCAAAGGACACATCGATATGAGGGCAABAGCATATC	660
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Qy	781	CAGCTGCACCTCCTCGTGGGGGCGACGCGTGTCTGCTGACGCCATGTACATTGGGACCTT	840
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Qy	841	TGTGGGGGCGCTTTCCTCGTGGGGCAATGTTCACCTTCAGTCCCCGGCGCATTTGGACG	900
Db	841	TGGGATCTGTTCCTCGCTCTCGCTCAGCTGTTCACCTTCGCGCTCGCGGACATGTGACA	900
Qy	901	GTGACGAGCTGTAAATGTTCATTTATCTCGGACCATPAAGGGGACGCG	950
Db	901	TTACAGGACTGTAACTGCTCAATTTATCCCGGACATGTGTGGGATCACCG	950

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1  APPLICATION NUMBER:  US 07/635,451
2  FILING DATE:  28-DEC-1990
3  ATTORNEY/AGENT INFORMATION:
4  NAME:  McIeland, Le-Nhung
5  REGISTRATION NUMBER:  31,541
6  REFERENCE/DOCKET NUMBER:  900703G
7  TELECOMMUNICATION INFORMATION:
8  TELEPHONE:  (202) 659-2930
9  TELEFAX:  (202) 887-0357
10 INFORMATION FOR SEQ ID NO: 11:
11 SEQUENCE CHARACTERISTICS:
12     LENGTH: 6039 base pairs
13     TYPE: nucleic acid
14     STRANDEDNESS: single
15     TOPOLOGY: linear
16 MOLECULE TYPE:  cDNA from genomic RNA
17 FEATURE:
18     NAME/KEY:  misc_feature
19     LOCATION:  1..6039
20     OTHER INFORMATION:  /note: "sequence = 333 - 6371 of
21     OTHER INFORMATION:  SEQ ID NO: 1"
22 FEATURE:
23     NAME/KEY:  CDS
24     LOCATION:  1..6039
25
26 US-08-904-686A-11

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Qy 661 CTTCACAGCCTGGGTGNGTGCCTTCATACGAGGAGCAATATCTCCGTTGCTGGTA 720
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RESULT 13

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; Sequence 11, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McJeland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
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; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686
; FILING DATE: 01-AUG-1997
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451

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; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: McJeland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 9007036
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6039 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..6039
; OTHER INFORMATION: /note: "sequence = 333 - 6371 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..6039
; US-09-315-850-11

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Query Match 70.4%; Score 674; DB 3; Length 6039;

Best Local Similarity 81.1%; Pred. No. 4,1e-190; Mismatches 180; Indels 0; Gaps 0;

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Qy 181 AGGCGACAGCTATCCCAAGGCTGCGGACCCGAGGAGAGTCTGGGCTCAGCCTGAG 240
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Db 361 AAGGTCAATGATACCTTAAGCTGATGAGCTTCCAGATCTCATGAGGATACATTCGCTGTC 420
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Db 841 TGGCGATCTGTTTCTCTGCTCTGACGCTGTTTCACTTCTGCGCTCGCGGCGCATTTGACG 900
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RESULT 14
US-08-324-977-13
; Sequence 13, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:

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; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9030 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..9030
; OTHER INFORMATION: /note: "sequence = 333 - 9362 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..9030
; US-08-324-977-13

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Query Match          70.4%; Score 674; DB 2; Length 9030;
Best Local Similarity 81.1%; Pred. No. 5e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

Qy 1 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAACGCAACCAACCGCGCCACAG 60
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Db 1 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAACGTAACCAACCGCGCCACAG 60
Qy 61 GAGCTTAATTTCCCGGTGGGGGAGATGTGGGTGAGTTTACTTTGTTCCGCCAGG 120
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Db 61 GAGCTTAATTTCCCGGTGGGGGAGATGTGGGTGAGTTTACTTTGTTCCGCCAGG 120
Qy 121 GGGCCCGAGTTGGGTGTGCGCGAGCAAGGAACTTCCGAGGCTGCACTTCGCGGA 180
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Db 121 GGGCCCGAGTTGGGTGTGCGCGAGCAAGGAACTTCCGAGGCTGCACTTCGCGGA 180
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Db 301 CGCGGCTCCCGTCTAGCTGGGGCCCAATGACCCCGACGTAAGATCACGCAATTTGGT 360
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Db 361 AAGGTCAATGATACCTTAACGTGTGCTTCCGATCTCATGAGGATACATTCGCTGTC 420
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Db 421 GGGGCCCCCTAGGGGGCGCTTCAGAAACCTGACATGATGTCGGGGCTCGGNAAGC 480
Qy 481 GCGGTATNNNNNNNNNNNNNAACCTTCNGGTGCTCTTNNCTATCTTCTCTGGCN 540
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Db 481 GCGGTATNNNNNNNNNNNNNAACCTTCNGGTGCTCTTNNCTATCTTCTCTGGCN 540
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Db 541 TTAATCTTCTGCTCACAGTCCCACTGCTGCTTATGAGGTGACACAGACACGATGGC 600
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    |||
Db 601 TACATGTCACTAATGACTGTTTCCAAAGGAGATGTAATGAGCAAGACATCATC 660
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    |||
Db 661 CTTGACAGCCTGGGTGNGTCCCTGCAATGAGGAAGCAATATCTCCGTTGCTGGGTA 720
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RESULT 15
US-08-384-616-13
Sequence 13, Application US/08384616
Patent No. 5847101

GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, McLealand &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384, 616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769, 996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635, 451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 9030 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..9030
OTHER INFORMATION: /note: "sequence = 333 - 9362 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..9030
US-08-384-616-13

Query Match 70.4%; Score 674; DB 2; Length 9030;
Best Local Similarity 81.1%; Pred. No. 5e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

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Qy      1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAACGCAACCAACCGCCGACAG 60
Db      1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAACGCAACCAACCGCCGACAG 60
Qy      61 GAGCTTAATTCGCGGGGTGGGGGAGATGCTGGGTGAGTTACTTGTGGCGGAGG 120
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Qy      181 AGCGCAGCTTATCCCAAGGCTCGCCGACCCGAGGAGGTCTGGGCTCAGCTGGG 240
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Qy      241 TACCCATGGCCCTTATAGTATACGAGGAGGTGGGATGGCGGGATGGCTTCCCT 300
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Qy      361 AAGGTATGATATACCTTAACGTTGCTTCCGATCTCAATGGGATCAATTCGCTGTC 420
Db      361 AAGGTATGATATACCTTAACGTTGCTTCCGATCTCAATGGGATCAATTCGCTGTC 420
Qy      421 GGGGCCCCCTAGGGGGCGTTCCAGAACCTTGNCAATGATGTCCGGGCTCGNAGAGC 480
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Qy      481 GCGGTATNNNNNNNNNNNNNAACCTTCGNGTGTGCTTTNNCTATCTTCTCTTGAGCN 540
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Qy      781 CAGTGAAGCTCTCGTGGGGGAGCGGTTCTGTCAGCATATATGGGAGCCTT 840
Db      781 CAGTGAAGCTCTCGTGGGGGAGCGGTTCTGTCAGCATATATGGGAGCCTT 840
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Db 841 TGGGATCTGTTTCTCTCAGCTTCACTTCTCGCCCTCGCCGCGCATGTGACA 900
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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 77.0414 Seconds
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Title: US-08-836-075B-13
Perfect score: 310
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Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%

Listing first 45 summaries

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SUMMARIES

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28	260	83.9	573	2	US-08-290-665A-131	Sequence 131, App
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42	240.8	77.7	669	2	US-08-143-578A-3	Sequence 3, App11
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ALIGNMENTS

RESULT 1
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Sequence 13, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-13

Query Match 99.4%; Score 308; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 1e-85;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGGGCGGCGGCGAGATCGTTGCGGAGTTTACTTGTGCGCGCAGG 120
DB 61 GAGCTCAAGTTCCTCCGGGCGGCGGCGAGATCGTTGCGGAGTTTACTTGTGCGCGCAGG 120
QY 121 GGGCCAGATTGGGTGTGGCGGCGAGCAAGAAAGCTTGTGAACGGTCCCGACACGTGGA 180
DB 121 GGGCCAGATTGGGTGTGGCGGCGAGCAAGAAAGCTTGTGAACGGTCCCGACACGTGGA 180
QY 181 AGGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGGCAGATCTGGGGAGCGTCCAGGA 240
DB 181 AGGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGGCAGATCTGGGGAGCGTCCAGGA 240
QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGGAGAGATGGCTCTGTCGCC 300
DB 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGGAGAGATGGCTCTGTCGCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 2

US-08-836-075A-17

Sequence 17, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-17

Query Match 90.6%; Score 280.8; DB 3; Length 957;
Best Local Similarity 93.9%; Pred. No. 4.3e-77;
Matches 291; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGGGCGGCGGCGAGATCGTTGCGGAGTTTACTTGTGCGCGCAGG 120
DB 61 GAGCTCAAGTTCCTCCGGGCGGCGGCGAGATCGTTGCGGAGTTTACTTGTGCGCGCAGG 120
QY 121 GGGCCAGATTGGGTGTGGCGGCGAGCAAGAAAGCTTGTGAACGGTCCCGACACGTGGA 180
DB 121 GGGCCAGATTGGGTGTGGCGGCGAGCAAGAAAGCTTGTGAACGGTCCCGACACGTGGA 180
QY 181 AGGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGGCAGATCTGGGGAGCGTCCAGGA 240
DB 181 AGGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGGCAGATCTGGGGAGCGTCCAGGA 240
QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGGAGAGATGGCTCTGTCGCC 300
DB 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGGAGAGATGGCTCTGTCGCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 3

US-08-836-075A-21

Sequence 21, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS-004
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-21

Query Match 88.5%; Score 274.4; DB 3; Length 310;
Best Local Similarity 92.6%; Pred. No. 2.6e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCGCGGCGCGGCGGCGAGATCGTTGCGAGTTTACTTGTTCGCGGAGG 120
DB 61 GAGCTTAAGTTCGCGGCGGCGGCGGCGAGATCGTTGCGAGTTTACTTGTTCGCGGAGG 120
QY 121 GGGCCCCGATTTGGGTGTGCGCGGCGAGCAAGAAAGCTTGTAGCGGTCCCGACGCGTGA 180
DB 121 GGGCCCCGATTTGGGTGTGCGCGGCGAGCAAGAAAGCTTGTAGCGGTCCCGACGCGTGA 180
QY 181 AGGCGCAGGCGCATCCCTAAAGATCGGNGNGCACTGCGAGGTCTGCGGAGCGTCCAGGA 240
DB 181 AGGCGCAGGCGCATCCCTAAAGATCGGNGNGCACTGCGAGGTCTGCGGAGCGTCCAGGA 240
QY 241 TATCCCTGCGCCCTGTATGGGAACGAGGCGCTCGGCTGCGGAGGATGCTCTGTCCCTC 300
DB 241 TATCCCTGCGCCCTGTATGGGAACGAGGCGCTCGGCTGCGGAGGATGCTCTGTCCCTC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 4
US-08-290-665A-125
Sequence 125, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290.665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 125:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: hominids
INDIVIDUAL ISOLATE: T4
US-08-290-665A-125

Query Match 88.5%; Score 274.4; DB 2; Length 573;
Best Local Similarity 92.6%; Pred. No. 3.3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCGCGGCGGCGGCGGCGAGATCGTTGCGAGTTTACTTGTTCGCGGAGG 120
DB 61 GAGCTTAAGTTCGCGGCGGCGGCGGCGAGATCGTTGCGAGTTTACTTGTTCGCGGAGG 120
QY 121 GGGCCCCGATTTGGGTGTGCGCGGCGAGCAAGAAAGCTTGTAGCGGTCCCGACGCGTGA 180
DB 121 GGGCCCCGATTTGGGTGTGCGCGGCGAGCAAGAAAGCTTGTAGCGGTCCCGACGCGTGA 180
QY 181 AGGCGCAGGCGCATCCCTAAAGATCGGNGNGCACTGCGAGGTCTGCGGAGCGTCCAGGA 240
DB 181 AGGCGCAGGCGCATCCCTAAAGATCGGNGNGCACTGCGAGGTCTGCGGAGCGTCCAGGA 240
QY 241 TATCCCTGCGCCCTGTATGGGAACGAGGCGCTCGGCTGCGGAGGATGCTCTGTCCCTC 300
DB 241 TATCCCTGCGCCCTGTATGGGAACGAGGCGCTCGGCTGCGGAGGATGCTCTGTCCCTC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 5
US-08-290-665A-134
Sequence 134, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homomapiens
; INDIVIDUAL ISOLATE: S83
; US-08-290-665A-134

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Query Match      88.5%; Score 274.4; DB 2; Length 573;
Best Local Similarity 92.6%; Pred. No. 3.3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

```

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QY 1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
Db 1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GACGTCAGTTCCTCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
Db 61 GACGTCAGTTCCTCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
QY 121 GGGCCGAGATTGGGTGTGTGCGCGCGAGCGAGAAAGACTTCTGAACGGTCCAGCCAGTGA 180
Db 121 GGGCCGAGATTGGGTGTGTGCGCGCGAGCGAGAAAGACTTCTGAACGGTCCAGCCAGTGA 180
QY 181 AGGGGCGAGCCATCTCTAAAGATCGGCGCACCACTGGCAAGTCTTGGGGAAAGGCGCAGA 240
Db 181 AGGGGCGAGCCATCTCTAAAGATCGGCGCACCACTGGCAAGTCTTGGGGAAAGGCGCAGA 240
QY 241 TATCCCTGGCCCTGTATGGGAACGAGGGGCTCGGCTGGAGAGATGGCTCTGTCCTCC 300
Db 241 TATCCCTGGCCCTGTATGGGAACGAGGGGCTCGGCTGGAGAGATGGCTCTGTCCTCC 300
QY 301 CGAGGCTCTC 310
Db 301 CGCGATTCTC 310

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RESULT 6
PCT-US95-10398-125
; Sequence 125, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK

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; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 125:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homomapiens
; INDIVIDUAL ISOLATE: T4
; PCT-US95-10398-125

```

```

Query Match      88.5%; Score 274.4; DB 6; Length 573;
Best Local Similarity 92.6%; Pred. No. 3.3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

```

```

QY 1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
Db 1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GACGTCAGTTCCTCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
Db 61 GACGTCAGTTCCTCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
QY 121 GGGCCGAGATTGGGTGTGTGCGCGCGAGCGAGAAAGACTTCTGAACGGTCCAGCCAGTGA 180
Db 121 GGGCCGAGATTGGGTGTGTGCGCGCGAGCGAGAAAGACTTCTGAACGGTCCAGCCAGTGA 180
QY 181 AGGGGCGAGCCATCTCTAAAGATCGGCGCACCACTGGCAAGTCTTGGGGAAAGGCGCAGA 240
Db 181 AGGGGCGAGCCATCTCTAAAGATCGGCGCACCACTGGCAAGTCTTGGGGAAAGGCGCAGA 240
QY 241 TATCCCTGGCCCTGTATGGGAACGAGGGGCTCGGCTGGAGAGATGGCTCTGTCCTCC 300
Db 241 TATCCCTGGCCCTGTATGGGAACGAGGGGCTCGGCTGGAGAGATGGCTCTGTCCTCC 300
QY 301 CGAGGCTCTC 310
Db 301 CGAGGTTTCC 310

```

```

RESULT 7
PCT-US95-10398-134
; Sequence 134, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263

```

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US95/10398
;; FILING DATE: 15-AUG-1995
;; CLASSIFICATION:
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: 08/086,428
;; FILING DATE: 29 JUNE 1993
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: 08/290/665
;; FILING DATE: 15 AUGUST 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792
;; INFORMATION FOR SEQ ID NO: 134:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 573 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; ORIGINAL SOURCE:
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: S83
;; PCT-US95-10398-134
Query Match 88.5%; Score 274.4; DB 6; Length 573;
Best Local Similarity 92.6%; Pred. No. 3,3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
QY 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GAGGTCAAGTCCCGGGGCGGGCGGCAATCGTTGGCGGAGTTTACTTGTGGCGGGGAGG 120
DB 61 GAGGTCAAGTCCCGGGGCGGGCGGCAATCGTTGGCGGAGTTTACTTGTGGCGGGGAGG 120
QY 121 GGGCCCGAGATTGGGTGTGCGCGCGACGAGAAAGACTTCTGAACGGATCCAGCCAGTGA 180
DB 121 GGGCCCGAGATTGGGTGTGCGCGCGACGAGAAAGACTTCTGAACGGATCCAGCCAGTGA 180
QY 181 AGCGCGCAGCCATCTCTAAAGATCGGNGGCCACTGGCGAGTCTTGGGGAAGTCCAGGA 240
DB 181 AGCGCGCAGCCATCTCTAAAGATCGGNGGCCACTGGCGAGTCTTGGGGAAGTCCAGGA 240
QY 241 TATCCCTGGCCCGCTGATGGAACGAGGGGCTCGGCTGGGAGAGATGGCTCTCTCCGCC 300
DB 241 TATCCCTGGCCCGCTGATGGAACGAGGGGCTCGGCTGGGAGAGATGGCTCTCTCCGCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGGCGTTCTC 310

RESULT 8
US-08-441-971-65
; Sequence 65, Application US/08441971

;; Patent No. 6071693
;; GENERAL INFORMATION:
;; APPLICANT: Tai-An Cha
;; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
;; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
;; NUMBER OF SEQUENCES: 147
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
;; STREET: 600 Atlantic Avenue
;; CITY: Boston
;; STATE: Massachusetts
;; COUNTRY: USA
;; ZIP: 02210
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: diskette, 5.25 inch
;; COMPUTER: IBM compatible
;; OPERATING SYSTEM: MS-DOS Version 3.3
;; SOFTWARE: Wordperfect 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/441,971
;; FILING DATE: 16-MAY-1995
;; CLASSIFICATION: 435
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: US/08/221,653
;; FILING DATE:
;; APPLICATION NUMBER: US/07/881,528
;; FILING DATE:
;; APPLICATION NUMBER: 07/697,326
;; FILING DATE: 8 May 1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Janluk, Anthony J.
;; REGISTRATION NUMBER: 29,809
;; REFERENCE/DOCKET NUMBER: C0772/7000
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 720-3500
;; TELEFAX: (617) 720-2441
;; TELEX: EZEKIEL
;; INFORMATION FOR SEQ ID NO: 65:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 549 nucleotides
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
;; ORIGINAL SOURCE:
;; INDIVIDUAL ISOLATE: 110
;; US-08-441-971-65
Query Match 87.5%; Score 271.2; DB 3; Length 549;
Best Local Similarity 91.9%; Pred. No. 3,2e-74;
Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
QY 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GAGGTCAAGTCCCGGGGCGGGCGGCAATCGTTGGCGGAGTTTACTTGTGGCGGGGAGG 120
DB 61 GAGGTCAAGTCCCGGGGCGGGCGGCAATCGTTGGCGGAGTTTACTTGTGGCGGGGAGG 120
QY 121 GGGCCCGAGATTGGGTGTGCGCGCGACGAGAAAGACTTCTGAACGGATCCAGCCAGTGA 180
DB 121 GGGCCCGAGATTGGGTGTGCGCGCGACGAGAAAGACTTCTGAACGGATCCAGCCAGTGA 180
QY 181 AGCGCGCAGCCATCTCTAAAGATCGGNGGCCACTGGCGAGTCTTGGGGAAGTCCAGGA 240
DB 181 AGCGGTACGCCATCTCTAAAGATCGTCGACCGCTGGCAAGTCTTGGGGAAGTCCAGGA 240
QY 241 TATCCCTGGCCCGCTGATGGAACGAGGGGCTCGGCTGGGAGAGATGGCTCTCTCCGCC 300
DB 241 TATCCCTGGCCCGCTGATGGAACGAGGGTCTCGGCTGGGAGAGTCTCTGTCTCCGCC 300
QY 301 CGAGGCTCTC 310

Db 121 GAGCCGAGATGAGTGTGCGCGCAGAGGAAACTTCCAGATCCAGCCAGCGGGA 180
Qy 181 AGGCGCAGCCGATCCCTAAAGATCGGNGGCCA CTGCGAGTCTCTGGGAGCGTCCAGGA 240
Db 181 AGGGGTAGGCCATCCCTAAAGATGTGCGACCGCTGCGCAAGTCTTGGGAGAGCGGGA 240
Qy 241 TATCCTGAGCCCTGTATGGGAGCAGAGGGCTCGGCTGAGGAGATGGCTCTGTCCCCC 300
Db 241 TATCCTTGGCCCCCTGTATGGGAGATGAGGGTCTCGGCTGAGGAGGTGGCTCTGTCCCCC 300
Qy 301 CGAGGCTCTC 310
Db 301 CGTGGCTCTC 310

RESULT 11
US-08-441-970-65
; Sequence 65, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: 110
; US-08-441-970-65

Query Match 87.5%; Score 271.2; DB 3; Length 549;
Best Local Similarity 91.9%; Pred. No. 3.2e-74;
Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

Qy 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAATACCAACGCGCCGCCACAG 60
Db 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAAGAAACCACTAACCGCCGCCACAG 60

Qy 61 GAGCTCAAGTCTCCGGGCGCGCGCCAGATCGTTGGCGAGATTACTTGTGTCGCGCAGG 120
Db 61 GAGCTCAAGTCTCCGGGCGCGCGCCAGATCGTTGGCGAGATTACTTGTGTCGCGCAGG 120
Qy 121 GGGCCAGATTTGGGTGTGGCGCGAGAGAGAAACCTTTGAACGGTCCAGCCAGCTGGA 180
Db 121 GGGCCAGATTTGGGTGTGGCGCGAGAGAGAAACCTTTGAACGATCCAGCCAGCTGGA 180
Qy 181 AGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGAGAGGTCTTGGGAGAGTCCAGGA 240
Db 181 AGGCGTAGCCCATCCCTAAAGATCGTCCAGCCGCTGAGCAAGTCTTGGGAGAGCCAGGA 240
Qy 241 TATCCTTGGCCCCCTGTATGGGAGCAGAGGGCTCGGCTGAGGAGATGGCTCTGTCCCCC 300
Db 241 TATCCTTGGCCCCCTGTATGGGAGATGAGGGTCTCGGCTGAGGAGGTGGCTCTGTCCCCC 300
Qy 301 CGAGGCTCTC 310
Db 301 CGTGGCTCTC 310

RESULT 12
US-08-290-665A-128
; Sequence 128, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 128:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: Homosapiens
; INDIVIDUAL ISOLATE: T2
; US-08-290-665A-128

Query Match 87.5%; Score 271.2; DB 2; Length 573;
Best Local Similarity 91.9%; Pred. No. 3.3e-74;
Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 66:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 510 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: arg6
 US-08-441-971-66

Query Match 86.5%; Score 268; DB 3; Length 510;
 Best Local Similarity 91.3%; Pred. No. 3.1e-73;
 Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCACAATCTCTAACTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
 DB 1 ATGAGCACAATCTCTCAACTCAAGAAAAACCAAGAAACACTAACCGCCGCCACAG 60
 QY 61 GAGGTCAAGTCCCGGGCGGGCGGCGAGATCGTTGCGGAGTTTACTTTGCGCGGAGG 120
 DB 61 GAGGTCAAGTCCCGGGCGGGCGGCGAGATCGTTGCGGAGTTTACTTTGCGCGGAGG 120
 QY 121 GGCCCAAGATTGGGTGTGCGCGGCGAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 DB 121 GGCCCAAGATTGGGTGTGCGCGGCGAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 QY 181 AGGCGCCAGATCCCTTAAGATCGGNGCCACTGCGCAGATCTTGGGGAAGTCCAGGA 240
 DB 181 AGGCGCCAGATCCCTTAAGATCGGNGCCACTGCGCAGATCTTGGGGAAGTCCAGGA 240
 QY 241 TATCCCTGGCCCTGTATGGAACGAGAGGAGTCTGGCTGGGAGAGATGCTCTTCCCTC 300
 DB 241 TACCTTGGCCCTGTATGGAATGAGAGGTCTCGGCTGGGAGAGATGCTCTTCCCTC 300
 QY 301 CGAGGCTCTC 310
 DB 301 CGCGGTTCTC 310

RESULT 15
 US-08-221-653-66
 Sequence 66, Application US/08221653
 Patent No. 6190864
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: WordPerfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,653
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/881,528
 FILING DATE:
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809
 REFERENCE/DOCKET NUMBER: C0772/7000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 66:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 510 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: arg6
 US-08-221-653-66

Query Match 86.5%; Score 268; DB 3; Length 510;
 Best Local Similarity 91.3%; Pred. No. 3.1e-73;
 Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCACAATCTCTAACTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
 DB 1 ATGAGCACAATCTCTCAACTCAAGAAAAACCAAGAAACACTAACCGCCGCCACAG 60
 QY 61 GAGGTCAAGTCCCGGGCGGGCGGCGAGATCGTTGCGGAGTTTACTTTGCGCGGAGG 120
 DB 61 GAGGTCAAGTCCCGGGCGGGCGGCGAGATCGTTGCGGAGTTTACTTTGCGCGGAGG 120
 QY 121 GGCCCAAGATTGGGTGTGCGCGGCGAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 DB 121 GGCCCAAGATTGGGTGTGCGCGGCGAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 QY 181 AGGCGCCAGATCCCTTAAGATCGGNGCCACTGCGCAGATCTTGGGGAAGTCCAGGA 240
 DB 181 AGGCGCCAGATCCCTTAAGATCGGNGCCACTGCGCAGATCTTGGGGAAGTCCAGGA 240
 QY 241 TATCCCTGGCCCTGTATGGAACGAGAGGAGTCTGGCTGGGAGAGATGCTCTTCCCTC 300
 DB 241 TACCTTGGCCCTGTATGGAATGAGAGGTCTCGGCTGGGAGAGATGCTCTTCCCTC 300
 QY 301 CGAGGCTCTC 310
 DB 301 CGCGGTTCTC 310

Search completed: January 11, 2006, 04:37:43
 Job time : 78.0414 secs

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; ANTI-SENSE: NO
US-08-836-075A-15

Query Match          98.4%; Score 570; DB 3; Length 579;
Best Local Similarity 100.0%; Pred. No. 1,1e-155;
Matches 579; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1  ACCTGCGGNTNTGCCGACCTCATGCGGGTACATNCCCGTGTGCGGCCCGGTGGCGGG 60
DB      1  ACGTGGGNTNTGCCGACCTCATGCGGGTACATNCCCGTGTGCGGCCCGGTGGCGGG 60

OY      61  GNNGCCAGGGCCCTCGCGNATGGCGGGGTCTTGAGGACGGGATTAATTATGNACA 120
DB      61  GNNGCCAGGGCCCTCGCGNATGGCGGGGTCTTGAGGACGGGATTAATTATGNACA 120

OY      121  GGGAAACCTCCCTGCTGCTCTCTTTTCATCTTCTGTTGAGCTCTTGTCTTGTGTCACC 180
DB      121  GGGAAACCTCCCTGCTGCTCTCTTTTCATCTTCTGTTGAGCTCTTGTCTTGTGTCACC 180

OY      181  GTGCTGTCTCTGNCGTTGAGTGCATAAATAATACAGTCAGGCTTATATGSCAACACGAC 240
DB      181  GTGCTGTCTCTGNCGTTGAGTGCATAAATAATACAGTCAGGCTTATATGSCAACACGAC 240

OY      241  TGCTCCAAACAAGCATTCGTATGAGCATTTGNGAGACGGGTGCTTCATGTTCCGTGANTGT 300
DB      241  TGCTCCAAACAAGCATTCGTATGAGCATTTGNGAGACGGGTGCTTCATGTTCCGTGANTGT 300

OY      301  GTCCCTGCGAGAAATAGCTCCGGTCCGTTCCACTGTTGSAATCCCGATCTGCCCAACATA 360
DB      301  GTCCCTGCGAGAAATAGCTCCGGTCCGTTCCACTGTTGSAATCCCGATCTGCCCAACATA 360

OY      361  GCGGTGAGCAAAACCTGCTGCTCTTCAACCAAGGACTGCGGACGACATTTGATGCCGTGG 420
DB      361  GCGGTGAGCAAAACCTGCTGCTCTTCAACCAAGGACTGCGGACGACATTTGATGCCGTGG 420

OY      421  AAGTCGGCAACCCCTGCTGCTGCTGCTGAGTGGAGATGTGTCGGGGGACGATGATATA 480
DB      421  AAGTCGGCAACCCCTGCTGCTGCTGCTGAGTGGAGATGTGTCGGGGGACGATGATATA 480

OY      481  GCTGCACAGGCTTTCATCGTGGACCGMAAGCCATTACTTCTGTCAGAAATGCAATTGC 540
DB      481  GCTGCACAGGCTTTCATCGTGGACCGMAAGCCATTACTTCTGTCAGAAATGCAATTGC 540

OY      541  TCCATATACCCAGGCCACATTACAGTGCATGCGATGCG 579
DB      541  TCCATATACCCAGGCCACATTACAGTGCATGCGATGCG 579

RESULT 2
US-08-836-075A-17
; Sequence 17, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A

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; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 9487016.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 9587007.6
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE FOR SEQ ID NO: 17:
; INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-17

Query Match      69.6%; Score 402.8; DB 3; Length 957;
Best Local Similarity 80.4%; Pred. No. 5.2e-107;
Matches 464; Conservative 1; Mismatches 112; Indels 0; Gaps 0;

QY    1  ACGTGGCCGNTTTGGCGACCTCATGGGGGAGCAATNCCCCTGTCCGGGCCGGTGCGGG 60
DB    379  ACGGTGGCTTTTGSOGACTCATTAGGGAGCAATCCTGTCTGGCGCCCCCTGTGGCGGC 438
QY    61  GTNGCCAAGGGCCCTCGCGSNATGGCGGTGCTCTGAGAAGACGGGATAAATTATGMAACA 120
DB    439  GTTGCGAAGCCCTTCGCGCATGGGCGTGGGGTCTGGAGGAACGGGATAAATTATGCAACA 498
QY    121  GGGAACTCCTCGTGGTGTCTCTTTTCTATCTTTCTNCTTGGTGGCTCTCTGTCTTGTCAAC 180
DB    499  GGGAACCTTGGCCCGGTGTCTCTTTTCTATCTTGTGCTGGGCTCTCTTGTCTGTATCAC 558
QY    181  GTGCTGTCTCTGNCTGTGAAGSTCAAAAATACAGTCAGGCGCTATATGGCAACCAACGAC 240
DB    559  GTGCCCGTGTGCGCATACAGATTATGAACAACAGCCACTTCTACATGGCGACTATATGAC 618
QY    241  TGCTTCAACAACAGCATCGTATGGCAATTGGANGACGCGTGTCTTCATGTTCTTGGATGT 300
DB    619  TGTGCGAATGACAGATGTCTGTGGAGCTCAGGGACGCGGAGTCTCAATGTTCTTGGATGT 678
QY    301  GTCCCTTCGAGAATAGCTCCGGTCCGTTCCACTGTTSAGATCCGATCTCGCCCAACATA 360
DB    679  GTCCCTGTGAGAGGTACAGTAATATGAGCACTTCTGTGTGGAACAGCGGTCGCCCAACGTG 738
QY    361  GCCGAGAACAAACCTGTGNCCTCTACCAAGGAACGCGGGACACGACTTGATGAGCCGTCGTG 420
DB    739  GCTGTGACCACCACTGTGGTCTCTCACTVAGAGGTCTGCGGGCTCAACATTGATATCAATCGTG 798
QY    421  ATGTCCGCAACCTCTGTCTGTGCCCTGTAGCTGGAGAGATGTGTGCGGCGCAGTAGTATGATA 480
DB    799  ATGTCCGCAACCTCTGTCTGTGCCCTTATATACATAGGGAGACTATGCGGCGCTGTATGATA 858
QY    481  GCTGCAACGGCTTTTCATGTTGGCAACCGAAGCGCCATTACTTGTCTCAGGAATGCAATTGCG 540
DB    859  CGAAGGCAAGTTGGCGTGTCTCACCGCAATATACATACTTTTGTTCAGGAATGCAACTGCG 918
QY    541  TCATATATCCCAAGGCAATTAACAGATCATGCGATGG 577
DB    919  TCATATATCCCAAGGCAATTAACAGGACATGGAATGG 955

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: Patent No. 6762024
: GENERAL INFORMATION:
: APPLICANT: Immunogenetics N.V.
: TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
: FILE REFERENCE: 35
: CURRENT APPLICATION NUMBER: US/09/878,281A
: CURRENT FILING DATE: 2001-06-12
: NUMBER OF SEQ ID NOS: 284
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 143
: LENGTH: 957
: TYPE: DNA
: ORGANISM: hepatitis C virus
: US-09-878-281A-143

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Query Match	366.4%	Score 366.8	DB 3	Length 957
Best Local Similarity	76.5%	Pred. No. 1.5e-96		
Matches 443	Conservative 0	Mismatches 136	Indels 0	Gaps 0

Qy	1	ACGTGGGAGNTTCCCACTCATAGGGATGACATNCCGTTGTGCGGCCCGCGTGGGCGG	60
Db	379	ACGTGTGGCTTTTCCCACTCATAGGGATGACATCCCTGTCTGCGGCCCAAGTTGGT	438
Qy	61	GTNCCAGAGGCCTGCGAGATGAGCGTGGCGGTCTTGAGAGCGAGATAATATGNAACA	120
Db	439	GTGCGCAGAGCTCTCGCGCATGGCGGAGAGTTCTGAAAGACGGAGATTAATATGCAACA	498
Qy	121	GGGAACTCCCTGGTGTCTCTTTTCTATCTCTNCTGTTGGCTCTTGTCTTGTGTACC	180
Db	499	GGGAACTTGGCCCGGTGTCTCTTTTCTATCTTCTTATTTGGCCCTGTATCTTGTACTT	558
Qy	181	GTGCTGTCTCTNCGTTGAGGTCAAAAATACAGTCAGGCGCTATATGGCAACAAGAC	240
Db	559	GTGCGCGTCTTCGCGCTTGCAGGTCAAGAACACACAGCACTCTTACATGTATCAATGAC	618
Qy	241	TGCTCAACACAGCATCGTATGGCAATTGNGAGCGCGGTCTTCATGTTCTGTATGT	300
Db	619	TGCGAAGACGTAGCATGTGTGGAGCTCAAGGATGTGTCTTCAAGTCCCGGGTGT	678
Qy	301	GTCCCCCTGGAGATATGCTCCGTCGGTTCACGTGTGGATCCGATTCGGCCCAATA	360
Db	679	GTCCCTTGTGAGGAGAAAGGCAACATATCCCTTTGGATACCGGTTCCGCCCAATA	738
Qy	361	GCGGTGAGCAAACTGTGTGCTGTCAACAAGGAGTCGGGACACGATTTGATGCGGTGTG	420
Db	739	GCTGTGAGCCAACTGTGTGCTGTACCAAGGCGCTTGGAGCATATTTGATACATATT	798
Qy	421	ATGTCCGCCAACCCTGTGCTTCCGCCGTATCGTGGAGATGTGTGCGCGCAGTATGATA	480
Db	799	GCATTCGGTACGTTTTGTCTGTGCCCTGTATATAGAGACCTGTGTGGCGGTATCTTG	858
Qy	481	GCTGCACAGGCTTTTATCGTGGACCGAAGCGCCATTACTTGTTCAGGAATGCATTGC	540
Db	859	GCTTCTCAACTTTCATCATCTCGCCCCGACATCAATGTTGTTCAGGACTGCACCTGT	918
Qy	541	TTCATATACCAGGACCAATTACAGGTATGTCATGAGGAG	579
Db	919	TTCATATACCAGGACCAATCACTGACATCGGAATGGCG	957

RESULT 4
US-08-836-075A-75
Sequence 75 Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:

```

ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P O BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

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Query Match	60.8%	Score	351.8	DB	3	Length	1195
Best Local Similarity	74.1%	Pred. NO	3.8e-92				
Matches 429; Conservative	3	Mismatches	147			Indels	0
						Gaps	0

QY	ACGCGCGAGNTTGGCGACCTCATATGGAGGAGTACATNCCGTTTGTGCGGCGCCCGGTGGGCGAGG	60
Db	617 ACGTACGGCTTTTNCGACCTCATATGGAGGAGTACATNCCGTTTGTGCGGCGCCCGGTGGAGGCG	676
QY	61 GTNCCAGAGGCGCTCGCGNATGCGGTGCGGCTCTGAGGACGGGATTAATATGMAACA	120
Db	677 GTCCCAAGAGCTTCGGCGATGCGGTGAGATGCTCGGAGGACGGGATTAATATGMAACA	736
QY	121 GGGAACTCTCCGTGGTGTCTCTTTTCTATCTCTTNGTTGGCTCTTCTGTCTTGTGTAC	180
Db	737 GGGAACTCTCCCGTGGTGTCTCTTTCTATCTCTCTCTCTTGTCTCTGAAATTAAC	796
QY	181 GTGCGCTGTCTGTGCGTTGAGGTCAAAAATACAGTCAGGCGCTATATGGCAACCAACGAC	240
Db	797 GNGCAGTTTCTGTGTGGAATCAAAAACACGMAACAATACATGTGTCTPAACGAC	856
QY	241 TGCTCCAAACAACAGATCGTATGCGAATTGNGACCGCGGTGCTTCATGTTCCTGGATGT	300
Db	857 TGTTCAACAGTAGCATATCACTGGCAGCTTNNGNNGCGGAGCTTCAAGTTCTGGAGTC	916
QY	301 GTGCCCTGCGGAAATAGCTCCGGTCCGGTTCACATGTTGGATCCCGATCTGCGCCCAACATA	360
Db	917 GTTCCCTGTGACGAGAGGCGCAACAGTTCGCCGTGTGGAATTCAGTACACGCCCRACGTA	976
QY	361 GCCGTGACAAACCTGTGTCTCTACCAAGGAGCTGCGGCGACGCATTGATGCCGTGTG	420
Db	977 KNGGTGAGCGCACTGTGTGCCCTTAACCGAGGGGTTTGCGATGCGACATGACCACTATCGTA	1036
QY	421 ATGTCTGGCAACCTCTGTCTGTGCCCTGTACGTGGGAATGTGTGCGCGCGCATATGATA	480
Db	1037 GCGTCCGCAACATTTTGTGTGCCCTCTACATATAGGAGATGTATGTGGCGCATATATGATA	1096

Qy	481	GCTGACAGCGCTTTCATGTCGTGGCACCAGCGCCCATTA	CTTCGTCCAGGATGCAATATGC	540
Db	1097	GCTGCGCAAGTGTATGTTCTGTCGCGGAGCATCACTT	GTTCAGGACTGTAACTGT	1156
Qy	541	TCCATATACCCAGCGCCACATTCACAGTATCGCATGCGG	579	
Db	1157	TCCATCTACCGCGGCGCCACATAACGGGGCCTGTATG	TGNG	1195
RESULT 5				
US-07-925-695-1				
: Sequence 1, Application us/07925695				
: Patent No. 5428145				
: GENERAL INFORMATION:				
: APPLICANT: OKAMOTO, Hiroaki				
: APPLICANT: NAKAMURA, Tetsuo				
: TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,				
: TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND				
: TITLE OF INVENTION: DETECTION SYSTEMS				
: NUMBER OF SEQUENCES: 9				
: CORRESPONDENCE ADDRESSES:				
: ADDRESSES: Beveridge, Degrandi, Wellacher & Young				
: STREET: 1850 M Street, N.W., Suite 800				
: CITY: Washington				
: STATE: D.C.				
: COUNTRY: US				
: ZIP: 20036				
: COMPUTER READABLE FORM:				
: MEDIUM TYPE: Floppy disk				
: COMPUTER: IBM PC compatible				
: OPERATING SYSTEM: PC-DOS/MS-DOS				
: SOFTWARE: Patentin Release #1.0, Version #1.25				
: CURRENT APPLICATION DATA:				
: APPLICATION NUMBER: US/07/925,695				
: FILING DATE: 19920807				
: CLASSIFICATION: 435				
: PRIOR APPLICATION NUMBER: JP 287402/91				
: FILING DATE: 09-AUG-1991				
: PRIOR APPLICATION DATA:				
: APPLICATION NUMBER: JP 360441/91				
: FILING DATE: 05-DEC-1991				
: ATTORNEY/AGENT INFORMATION:				
: NAME: Wellacher, Robert G.				
: REGISTRATION NUMBER: 20,531				
: REFERENCE/DOCKET NUMBER: 06/87-48009				
: TELECOMMUNICATION INFORMATION:				
: TELEPHONE: (202) 659-2811				
: TELEFAX: (202) 659-1462				
: TELEX: WUI 64470				
: INFORMATION FOR SEQ ID NO: 1:				
: SEQUENCE CHARACTERISTICS:				
: LENGTH: 9589 base pairs				
: TYPE: NUCLEIC ACID				
: STRANDEDNESS: single				
: TOPOLOGY: linear				
: US-07-925-695-1				
Query Match	57.0%;	Score 330;	DB 2;	Length 9589;
Best Local Similarity	55.4%;	Pred. No. 2e-85;		
Matches 321;	Conservative 99;	Mismatches 159;	Indels 0;	Gaps 0;
Qy	1	ACGTGCGGTTTNGTCGCACTCATGAGGAGTACATNCCCGTGTGGGGCCCGGGTGGCGGG	60	
Db	719	ACGUGCGGCUUUGGCGCACCUCAUGGGGUAUCCUUGUGUAGGGCCCGCCGUCGCGGC	778	
Qy	61	GTNCCACAGGCGCCCTCGCGCATGAGCGGTCTTGAGAGACGGGATAATTATGNAACA	120	
Db	779	GUCCGCAAGAGCUCUCGCGCAUGGCGGUAAGAGACGTCUGAGAGACGGGGUUAUUVUUGAAC	838	
Qy	121	GGGAACCTCCCTGCGTTCCTCTTTCTATCTTCTGTTGGCTCTTCTGCTTGTGTACAC	180	

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Db      839  GGGAACTUACCCGGUGUCUCCUUCUUAUCUUCUUGCGGCCUCUGUCCUGACUACAC  898
Qy      181  GTGCTGTCTCTGNCGTTGAGGTCAAAAATACCACTGACGCTTATATGCAACCAAGAC  240
Db      899  ACCCGGUTUCGCGUGCCGAAGUGAAGAACAUCAUGACCGGCTUACUAGUGACCAAGAC  958
Qy      241  TGCTTCAACAACACGATGTGTATGGCAATTGANGACGGGCTGTTCATGTTCTTGGATGT  300
Db      959  UGCACCAUAGUAGAUACUACCUUGGCACUCGAGCGUGUGUCUCUACAGUCCCGGGUGC  1015
Qy      301  GTGCCCTGCGAAGATAGCTCCGGTGGTTCCACTTGTGATTCGGATTCGCCCAACATA  360
Db      1019  GUCCCGUGCGAAGAAAGUGGGGAUAUACAUCUGUGUCUGAUACCGGUCUCAACGAUUG  1078
Qy      361  GCGGTGACCAAACTGTGTCTCTCAACAAGGACCTGCGGACCGCATTTGATGCGTGTG  420
Db      1079  GCGGUGACGACAGCCCGGCGCCUCACGACGAGGCUUACGAGCGCAUUGACAUUGUGUG  1138
Qy      421  ATGTCCGCGACCCCTGTGCTCTGCTCTGACGTGAGGAAATGTGTGGGGCGGCACTATGAT  480
Db      1139  AUGUCGCGACAGCUCUGCCGUCUUAACGUGGGGACCTUCUGGUGGGUGAUGUCU  1198
Qy      481  GCTGCACAGCGCTTCTGATGTGGACCGAAGCGCCATTACTTCTGTCGACGAATGCAATTGC  540
Db      1199  GCAAGCCAGAUUGUUCAUUGUCUCGCGACACGACACACUUGUUGUCAAGACUGCAUUGC  1258
Qy      541  TCCATATACCAAGCCACATTACAGATGATGATGAGCGG  579
Db      1259  UCCAUCAACCCUGUACCAUACUGGACCGCAUGGCG  1297

RESULT 6
US-07-925-695-2
/ Sequence 2, Application US/07925695
/ Patent No. 5428145
/ GENERAL INFORMATION:
/ APPLICANT: OKAMOTO, Hiroaki
/ APPLICANT: NAKAMURA, Tetsuo
/ TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
/ TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
/ TITLE OF INVENTION: DETECTION SYSTEMS
/ NUMBER OF SEQUENCES: 9
/ CORRESPONDENCE ADDRESS:
/ ADDRESS: Beveridge, Degrandi, Weilacher & Young
/ STREET: 1850 M Street, N.W., Suite 800
/ CITY: Washington
/ STATE: D.C.
/ COUNTRY: US
/ ZIP: 20036
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/925.695
/ FILING DATE: 19920807
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: JP 287402/91
/ FILING DATE: 09-AUG-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: JP 360441/91
/ FILING DATE: 05-DEC-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Weilacher, Robert G.
/ REGISTRATION NUMBER: 20,531
/ REFERENCE/DOCKET NUMBER: 06/87-48009
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (202) 659-2811
/ TELEFAX: (202) 659-1462
/ TELEX: MUTI 64470
/ INFORMATION FOR SEQ ID NO: 2:

```


RESULT 10
US-08-836-075A-23
Sequence 23. Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775

Query Match	44.2%;	Score 255.8;	DB 3;	Length 447;
Best Local Similarity	72.9%;	Pred. No. 2e-64;		
Matches 326;	Conservative 0;	Mismatches 121;	Indels 0;	Gaps 0;

Qy	100	GACGGATAAATATATGNAACAGGGAGACCTCCCTGGTGGCTCTTTTCATCTTCGNTGG	159
Db	1	GACGGATAAACATACGACACAGGGAACTGCCGGTGGCTCTTTTCATCTTCGTCG	60
Qy	160	GCTCTTCTGTCTTGTGTACACCGTCCGTGTCTCTGNCGTTGAGTTCAAAATAACAGTCAG	219
Db	61	GCTTGTCTATCTGTCTTCACCTGTGCCGGCCGCTCCCTGTGCAGGTTCAGAACACCGGCAC	120
Qy	220	GCCATATATGGAACCAACGACTGCTCCACAAACAGACATCGATATGGCAATTGANGGACGG	279
Db	121	TCTTATATGTGTACCAATGATTTGCTCAACAGACGACATTGTCTGGACGCTTAAAGATGCT	180
Qy	280	GTGCTTCATGTTCCTGATGTGTCCCTGCGAGAAATAGCTCCGGTCCGTTCCACTGTTGG	339
Db	181	GTGCTTACGTCCTCGAGTGTGTTCCATGTGAGAGGCCAAMAATCACTTCGCTGTGG	240
Qy	340	ATCCCATCTGCCCAACATPAGCCGTGAGCAAACTGTGTCTTCACCAAGGACCTGGG	399
Db	241	ATATCTTGTGACCCCAATGTGGCGGTAGGCCAACCTGGCGGCTCACCGAGGATTTGGG	300
Qy	400	GACGCAATTGATGCGCTGTGTATTCGCGCACCCCTGTGCTGACCCTGTACGTGGAGAT	459
Db	301	ACGACATTTGACACCAATCGTTGGCGTCTGTACCGTCTGACTTGTGTATATGTGGCGAC	360
Qy	460	GTGTGCGGCGAGTATGATAGCTGCACAGGCTTTTCATCGTGGACCGAGCGCCATTAC	519
Db	361	TTCTGCGGCGAGTATGATGTGTCTTCAATTTTTCATGATCTCCCTTCAGACCAACATTC	420
Qy	520	TTGTGTCAAGATTCATTTGCTTCATA	546
Db	421	TTGTGTCAAGATTCATTTGCTTCATA	447

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RESULT 11
US-09-539-601-1
Sequence 1, Application US/09539601C
Patent No. 6630343
GENERAL INFORMATION:
APPLICANT: Barmenschlager, Ralf FW
TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
FILE REFERENCE: all sequences
CURRENT APPLICATION NUMBER: US/09/539,601C
CURRENT FILING DATE: 2001-08-30
EARLIER APPLICATION NUMBER: 139 15 178-4 GERMANY
EARLIER FILING DATE: 1999-04-03
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 11076
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: 5' UTR
LOCATION: (1)..(341)
OTHER INFORMATION: construct I389/Core-3'/wt
FEATURE:
NAME/KEY: CDS

```

LOCATION: (342)..(1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202)..(1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813)..(10845)
OTHER INFORMATION: hepatitis C virus polypeptide from core to
OTHER INFORMATION: nonstructural protein NS5B; parental sequence
OTHER INFORMATION: without cell culture-adaptive mutations
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846)..(11076)
US-09-539-601-1

Query Match 43.8%; Score 253.8; DB 3; Length 11076;
Best Local Similarity 64.4%; Pred. No. 2.9e-63;
Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;

QY 1 ACGTGGGNTTGGCGACCTCATGGGGTACATGCCGTTTCGGGCCCCGGTGGGGG 60
DB 2191 ACGTGGGCTTCGCGATCTCATGGGGTACATTCGGGCTCGTGGGCCCCCTGAGGGGGC 2250
QY 61 GTNCCAGAGGCGCTTCGCGATATGGGCGGTCTCTGGAGAGCGGATTAATTAAGAAC 120
DB 2251 GCTCCAGAGGCGCTTCGCGATATGGGCGGTCTCTGGAGAGCGGATTAATTAAGAAC 2310
QY 121 GGAACCTCCCTGGTGTCTCTTTCTATCTTCTGTTGGCTCTTCTTGTGTAC 180
DB 2311 GGGATCTGCGCGGTGTCTCTTTCTATCTTCTTGTGCTGTCTGTGTAC 2370
QY 181 GTGCTGTCTGTGCGTGTAGGTCAAAATACAGTCAAGGCTTATATGCAACAGAC 240
DB 2371 ATCCAGGCTTCGCTTATGAGTGGCAAGTATCCGAGTGTACATGTACAGAACGAC 2430
QY 241 TGTCTCAACAGATGTATGGAATTTGAGAGCGGGTCTTCAATTTCTGTGATGT 300
DB 2431 TGTCTCAACAGATGTATGGAATTTGAGAGCGGGTCTTCAATTTCTGTGATGT 2490
QY 301 GTCCCTCGAGAAATAGCTCGGTGCTTCCACTGTGGATCCGATCCGCAACATA 360
DB 2491 GTCCCTCGGTTCGGGAGAAACAATCTCTCCGCTGTGGTACGCTACCTCCACGTC 2550
QY 361 GCCGTGAGCAAACTGTGTCTCTCAAGAGGACTGCGGGCAAGCATTTGATCCGTCTG 420
DB 2551 GCGGCAAGAAAGCTAGCGTCCCACTACGACGATACGACGCAATGTCGATTTGCTGTT 2610
QY 421 ATGTCCGCAACCTGTGTCTGTGCGCTGTACGTTGAGAGTGTGTGGGGCATGATGTA 480
DB 2611 GGGGGGCTGTCTGTCTGTGCTGTATGTACGTGGAGATCTGTGGGATCTGTTTCTCTC 2670
QY 481 GCTGCAAGGCTTTCATGTGTGAGCAAGAGCGCATTTCTGTCCAGAAATGCAATTC 540
DB 2671 GTCCGCGAGCTTTCATCTTCTGCTGTGCGCTGTGGCGGACGAGACATGAGACTGCAATTC 2730
QY 541 TCCATATACCAAGGCGACATTTACAGTATGATGATGCG 578
DB 2731 TCAATATATCCCGGCAAGTACAGTACAGTATGCG 2768

RESULT 12
US-09-539-601-19
Sequence 19, Application US/09539601C
Patent No. 6630343
GENERAL INFORMATION:
APPLICANT: Bartenhager, Ralf FW
TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
FILE REFERENCE: all sequences
CURRENT APPLICATION NUMBER: US/09/539,601C

CURRENT FILING DATE: 2001-08-30
EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
EARLIER FILING DATE: 1999-04-03
NUMBER OF SEQ ID NOS: 51
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 19
LENGTH: 11076
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: 5'UTR
LOCATION: (1)..(341)
OTHER INFORMATION: construct I389/Core-3'/9-13F
FEATURE:
NAME/KEY: CDS
LOCATION: (342)..(1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202)..(1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813)..(10845)
OTHER INFORMATION: hepatitis C virus polypeptide from core to
OTHER INFORMATION: nonstructural protein NS5B; carries cell
OTHER INFORMATION: culture-adaptive mutations from clone 9-13F
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846)..(11076)
US-09-539-601-19

Query Match 43.8%; Score 253.8; DB 3; Length 11076;
Best Local Similarity 64.4%; Pred. No. 2.9e-63;
Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;

QY 1 ACGTGGGNTTGGCGACCTCATGGGGTACATGCCGTTTCGGGCCCCGGTGGGGG 60
DB 2191 ACGTGGGCTTCGCGATCTCATGGGGTACATTCGGGCTCGTGGGCCCCCTGAGGGGGC 2250
QY 61 GTNCCAGAGGCGCTTCGCGATATGGGCGGTCTCTGGAGAGCGGATTAATTAAGAAC 120
DB 2251 GCTCCAGAGGCGCTTCGCGATATGGGCGGTCTCTGGAGAGCGGATTAATTAAGAAC 2310
QY 121 GGAACCTCCCTGGTGTCTCTTTCTATCTTCTGTTGGCTCTTCTTGTGTAC 180
DB 2311 GGGATCTGCGCGGTGTCTCTTTCTATCTTCTTGTGCTGTCTGTGTAC 2370
QY 181 GTGCTGTCTGTGCGTGTAGGTCAAAATACAGTCAAGGCTTATATGCAACAGAC 240
DB 2371 ATCCAGGCTTCGCTTATGAGTGGCAAGTATCCGAGTGTACATGTACAGAACGAC 2430
QY 241 TGTCTCAACAGATGTATGGAATTTGAGAGCGGGTCTTCAATTTCTGTGATGT 300
DB 2431 TGTCTCAACAGATGTATGGAATTTGAGAGCGGGTCTTCAATTTCTGTGATGT 2490
QY 301 GTCCCTCGAGAAATAGCTCGGTGCTTCCACTGTGGATCCGATCCGCAACATA 360
DB 2491 GTCCCTCGGTTCGGGAGAAACAATCTCTCCGCTGTGGTACGCTACCTCCACGCTC 2550
QY 361 GCCGTGAGCAAACTGTGTCTCTCAAGAGGACTGCGGGCAAGCATTTGATCCGTCTG 420
DB 2551 GCGGCAAGAAAGCTAGCGTCCCACTACGACGATACGACGCAATGTCGATTTGCTGTT 2610
QY 421 ATGTCCGCAACCTGTGTCTGTGCGCTGTACGTTGAGAGTGTGTGGGGCATGATGTA 480
DB 2611 GGGGGGCTGTCTGTCTGTGCTGTATGTACGTGGAGATCTGTGGGATCTGTTTCTCTC 2670
QY 481 GCTGCAAGGCTTTCATGTGTGAGCAAGAGCGCATTTCTGTCCAGAAATGCAATTC 540
DB 2671 GTCCGCGAGCTTTCATCTTCTGCTGTGCGCTGTGGCGGACGAGACATGAGACTGCAATTC 2730

QY 541 TCATATACCGAGCCACATTACAGTTCATGCGAGC 578
Db 2731 TCAATATATCCCGGCGACGTGACAGGTACCGTATGCG 2768

RESULT 13

US-09-539-601-25
; Sequence 25, Application US/09539601C
; Patent No. 6630343
; GENERAL INFORMATION:
; APPLICANT: Barteneschlager, Ralf FW
; TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
; FILE REFERENCE: all sequences
; CURRENT APPLICATION NUMBER: US/09/539,601C
; CURRENT FILING DATE: 2001-08-30
; EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
; EARLIER FILING DATE: 1999-04-03
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 11076
; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(341)
; OTHER INFORMATION: construct I389/Core-3'/5.1
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (342)..(1193)
; OTHER INFORMATION: hepatitis C virus core - neomycin
; OTHER INFORMATION: phosphotransferase fusion protein
; FEATURE:
; NAME/KEY: RBS
; LOCATION: (1202)..(1812)
; OTHER INFORMATION: internal ribosome entry site from
; OTHER INFORMATION: encephalomyocarditis virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1813)..(10845)
; OTHER INFORMATION: hepatitis C virus polyprotein from core to
; OTHER INFORMATION: nonstructural protein NS5B; carries cell
; OTHER INFORMATION: culture-adaptive mutations of clone 5.1
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (10846)..(11076)
; US-09-539-601-25

Query Match 43.8%; Score 253.8; DB 3; Length 11076;
Best Local Similarity 64.4%; Pred. No. 2.9e-63;
Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;
QY 1 ACGTGGCGGNTNTGCCGACCTCATGGGATACATNCCGTTGTCGCGCCCCGCGTGGCGG 60
Db 2191 ACGTGGCGGCTTCCGCGATCTCATGGGATACATTCGCTCGCGGCCCCCTTGGGGG 2250
QY 61 GTNCCGAGGCGCCCTGCGGATAGCGGTGGGCTCTGAGAGCGGGATTAATTAGNAACA 120
Db 2251 GCTGCCAGGCGCCCTGCGGATAGCGGTGGGCTCTGAGAGCGGGATTAATTAGNAACA 2310
QY 121 GGAACCTCCCTGGTGTCTCTTTTCTATCTTCTGTTGCTCTTCTGTTGTCAC 180
Db 2311 GGAATCTGCGGCTGCTCTTTTCTATCTTCTTGGCTTGGCTGCTGTTGAC 2370
QY 181 GTGCTGTCTGTGCGTGTAGGTCAAAATACAGTCAGGCTTATGGAACACGAC 240
Db 2271 ATCCAGGCTTCGCTTATGAGTGCGCAACGATCCGAGGTACATGTACGACGAC 2430
QY 241 TGTCTCAACACAGCATGTATGGAATTGAGAGCGGGTCTTCATGTTCTGGAATG 300
Db 2431 TGTCTCAACACAGCATGTATGAGAGCGAGCATGATCATACCCCGGGTGC 2490

QY 301 GTCCCTGCGAGATATAGCTCCGGTTCCTCACTGTGTGATCCGATCTCCCAACATA 360
Db 2491 GTGCTCTGCGTGGGAGAACATCTCTCCGCTGCTGGTATAGGCTCATCCACGCTC 2550
QY 361 GCCGTAGCAAACTGTGCTCTACCAAGAGACTGCGGACAGCATATGCGGTGTG 420
Db 2551 GCGGCGAGAAACGTATACCTCCCACTACGACGATACGACCATGTCGATTTGCTGTT 2610
QY 421 ATGTCGCGCAACCTCTGCTGCGCTGTAGTGGGAGATGTCGGCGCAGTATGATA 480
Db 2611 GGGCGGCTGCTCTGCTGCTGCTATGATGAGATCTCTGCGGATCTGTTTCTTC 2670
QY 481 GCTGCACAGCTTTCATGTCGACACGAGCGCATTCCTGTCGAGATGCAATTGC 540
Db 2671 GTGCGCCAGCTGTTCACCTTCTCGCTCGCGGACAGACAGTACAGCATGCAATTGC 2730
QY 541 TCATATACCGAGCCACATTACAGGTTCATGCGAGC 578
Db 2731 TCAATATATCCCGGCGACGTGACAGGTACCGTATGCG 2768

RESULT 14

US-09-539-601-31
; Sequence 31, Application US/09539601C
; Patent No. 6630343
; GENERAL INFORMATION:
; APPLICANT: Barteneschlager, Ralf FW
; TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
; FILE REFERENCE: all sequences
; CURRENT APPLICATION NUMBER: US/09/539,601C
; CURRENT FILING DATE: 2001-08-30
; EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
; EARLIER FILING DATE: 1999-04-03
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 11076
; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(341)
; OTHER INFORMATION: construct I389/Core-3'/19
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (342)..(1193)
; OTHER INFORMATION: hepatitis C virus core - neomycin
; OTHER INFORMATION: phosphotransferase fusion protein
; FEATURE:
; NAME/KEY: RBS
; LOCATION: (1202)..(1812)
; OTHER INFORMATION: internal ribosome entry site from
; OTHER INFORMATION: encephalomyocarditis virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1813)..(10845)
; OTHER INFORMATION: hepatitis C virus polyprotein from core to
; OTHER INFORMATION: nonstructural protein NS5B; carries cell culture
; OTHER INFORMATION: adaptive mutations from clone no. 19
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (10846)..(11076)
; US-09-539-601-31

Query Match 43.8%; Score 253.8; DB 3; Length 11076;
Best Local Similarity 64.4%; Pred. No. 2.9e-63;
Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;
QY 1 ACGTGGCGGNTNTGCCGACCTCATGGGATACATNCCGTTGTCGCGCCCCGCGTGGCGG 60
Db 2191 ACGTGGCGGCTTCCGCGATCTCATGGGATACATTCGCTCGCGGCCCCCTTGGGGG 2250
QY 61 GTNCCGAGGCGCCCTGCGGATAGCGGTGGGCTCTGAGAGCGGGATTAATTAGNAACA 120

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Db      2251 GCTCCAGAGGCGCTGGCGCATGCGTCCGGGTTCTGGAGGACGGCGTGAACATATGCAACA 2310
Qy      121  GGGAACTCCCTGGTGTGCTCTTTTATCTTTCTGTTGGTCTCTTCTGTTGGTACC 180
Db      2311 GGGAACTGCGCGGTGCTCTCTTTTATCTTTCTGTTGGTCTCTGTTTGAAC 2370
Qy      181  GTGCTGTCTGTGNCGTGAGGTCAAAATATCAATCAGTCAGGCGCTATATGGCAACCAAGAC 240
Db      2371 ATCCAGGTTCCGCTTATGAGTGGCAAGCATCCGAGGTACATGTCACGACGAC 2430
Qy      241  TGTTCACAAACAGCATGTATGCAATGGAGACGGGTGCTTCATGTTCTGATGT 300
Db      2431 TGTTCACAAACAGCATGTATGAGGACGACGACATGATCATGATACCCCGGGTGC 2490
Qy      301  GTCCCTGGCGAATAGCTCGGTGCTGTTCCATGTTGGATCCCGATGTCGCCCAACATA 360
Db      2491 GTGCTGTGCTTCCGGAGAACATCTCTCCGCTGTGGTAGCGCTCACCGCTC 2550
Qy      361  GCGGTAGCAAACTGTGTCTCTGACCAAGGAGACTGCGGACCGCATTTGATCCGTG 420
Db      2551 GCGGCGAGAACTGATGCTGCCCATGACGACGATGACCGCATGTCGATTTGCTG 2610
Qy      421  ATGTCCGCACTCTGCTGTGCTGCTGTACGTGGAGATGTGTGGCGCGCATGATGA 480
Db      2611 GGGGCGGCTGCTCTGCTGCTGCTATGATGAGGAGATCTGCGGATCTGTTTCTC 2670
Qy      481  GCTGCACAGGCTTTCATGTGTGACCGAAGGCGCATTTCTGTCGCGAATGCAATTC 540
Db      2671 GTGCGCAGCTGTTCATCTTCTGCTGCGCGACGACGACGATGACGACTGCAATTC 2730
Qy      541  TCCATATACCGAGCGCATTTACAGTTCATGCAATGCG 578
Db      2731 TCAATATATCCCGGACGTCAGTCACGTCATGCG 2768

```

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RESULT 15
US-08-836-075A-47
Sequence 47, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.

```

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; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
US-08-836-075A-47

Query Match      42.7%; Score 247.4; DB 3; Length 957;
Best Local Similarity 63.6%; Pred. No. 7.5e-62;
Matches 368; Conservative 0; Mismatches 211; Indels 0; Gaps 0;

Qy      1  ACGTGGGANTTNTCCGACCTCATGAGGGTACATNCCGTTGTCCGGCCCCGGTGGCGGG 60
Db      379  ACTTGGGCTTCGCCGACCTCATGAGTACATCCCTGTGCGCCCTTGGAGGC 438
Qy      61  GTNCCAGGCGCTCCGCGAATGGCGTGGGCTGTGGAGAGGATTAATTATGNAACA 120
Db      439  GTTGGCGGAACTGAGACATGTGTGAGGCGCATGAGAGCGGATTAATATGACACA 498
Qy      121  GGAACCTCCCTGTTGCTCTCTTTTATCTTCTGTTGGCTCTGTTGTGTCACC 180
Db      499  GGGAACTTCTGTGTTGCTTTCTCTATCTTCGTTGCACTTCTGTCGTCACCC 558
Qy      181  GTGCTGTCTGTGNCGTGAGGTCAAAATATCAATCAGTCAGGCGCTATATGCAACCAAGAC 240
Db      559  ACCGCTGCTCCCGCACATAAATATGCTAACAGTCTGGCTGTATCATCTAACCAATGAC 618
Qy      241  TGTCCAAACAGCATGTCATGAGCAATGGAGCAATGGAGCGGCTGTGATGTTCTGATGT 300
Db      619  TGCCCAATGACGATTTGTATGTATGAGCGAATGGCATATCTGCAATCTCCGGGTTGC 678
Qy      301  GTCCCTGCGAGATAGCTCCGGTCCGTTTCACACTGTTGATCCGATCTTCCGCAACATA 360
Db      679  GTCCCTGCGTGAAGACCGGCAACCTGACCAAGTGTGGCTGTGCGGCTCCCGACATTG 728
Qy      361  GCGGTAGCAAACTGTGTCTCTACCAAGGAGCTGGGCGACGATGATGCGGCTG 420
Db      739  GCGGTGCAAGATGCTGCGTGTCCATCAGGGGTGTCCGCGACGACGTCGACTTGTG 798
Qy      421  ATGTCCGCACTCTGCTGTGCTGCTGTACGTGGAGATGTGTGCGGCGCATGATGATA 480
Db      799  GTGCTGTGCTGCTGTGCTGTGCTGTGATGATGAGGAGCATTTATGCGGTCTTTCTC 858
Qy      481  GCTGCACAGCTTTCATGTCGTGGACCGAAGCGCATTTCTGTCAGGATGCAATTCG 540
Db      859  GTTGGGAGTTGTTCAAGTTCAAGCCAGATGATGATGATCCCGACGACCTCACTGT 918
Qy      541  TCCATATACCGAGCGCATTTACAGTTCATGCAATGCG 579
Db      919  TCCATATACAGGCGCATCTGAGGACCGGATGCG 957

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Job time : 145.893 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 237.834 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-17
Perfect score: 957
Sequence: 1 atgagcacatcctaacc.....tcacaggacatcgatggn 957

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Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
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8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	954.6	99.7	957	3	US-08-836-075A-17
2	729	76.2	957	3	US-09-878-281A-143
3	691.8	72.3	1195	3	US-08-836-075A-75
4	674.6	70.5	9589	2	US-07-925-695-1
5	674.6	70.5	9589	2	US-07-925-695-2
6	640.6	66.9	9511	2	US-07-925-695-6
7	640.6	66.9	9511	2	US-07-925-695-7
8	519.4	54.3	9599	3	US-09-014-416-4
9	519.4	54.3	9599	3	US-09-014-416-6
10	517.8	54.1	9365	3	US-09-827-688-7
11	516.2	53.9	12980	3	US-08-811-566-5
12	516.2	53.9	12980	3	US-09-034-756-5
13	514.6	53.8	9275	3	US-10-259-275-19
14	514.6	53.8	9416	3	US-08-823-895A-26
15	514.6	53.8	9416	3	US-10-104-966-13
16	514.6	53.8	9416	3	US-09-929-955-13
17	514.6	53.8	9599	3	US-09-014-416-2
18	514.6	53.8	9646	3	US-08-811-566-1
19	514.6	53.8	9646	3	US-09-034-756-1
20	514.6	53.8	10803	3	US-10-259-275-17
21	514.6	53.8	11076	3	US-08-539-601-1
22	514.6	53.8	11076	3	US-09-539-601-19
23	514.6	53.8	11076	3	US-09-539-601-25
24	514.6	53.8	11076	3	US-09-539-601-31

25	513.6	53.7	957	3	US-08-836-075A-11	Sequence 11, Appl
26	513.	53.6	1037	2	US-08-462-195-1	Sequence 1, Appl1
27	513	53.6	1037	2	US-08-636-883-1	Sequence 1, Appl1
28	513	53.6	1037	3	US-09-127-829-1	Sequence 1, Appl1
29	513	53.6	2116	3	US-08-191-160-21	Sequence 21, Appl
30	513	53.6	9401	2	US-08-432-693-1	Sequence 1, Appl1
31	513	53.6	9416	3	US-08-811-566-19	Sequence 19, Appl
32	513	53.6	9416	3	US-09-034-756-19	Sequence 19, Appl
33	511.8	53.5	9401	6	PCT-US91-02225-9	Sequence 9, Appl1
34	510.6	53.4	957	3	US-08-836-075A-41	Sequence 41, Appl
35	510.2	53.3	9379	3	US-08-444-818-176	Sequence 176, App
36	509.8	53.3	1167	2	US-08-324-977-9	Sequence 9, Appl1
37	509.8	53.3	1167	2	US-08-384-616-9	Sequence 9, Appl1
38	509.8	53.3	1167	2	US-08-904-686A-9	Sequence 9, Appl1
39	509.8	53.3	1167	3	US-09-315-850-9	Sequence 9, Appl1
40	509.8	53.3	1489	2	US-08-324-977-3	Sequence 3, Appl1
41	509.8	53.3	1499	2	US-08-384-616-3	Sequence 3, Appl1
42	509.8	53.3	1499	3	US-08-304-686A-3	Sequence 3, Appl1
43	509.8	53.3	1499	3	US-09-315-850-3	Sequence 3, Appl1
44	509.8	53.3	1539	2	US-08-470-426B-17	Sequence 17, Appl
45	509.8	53.3	1863	2	US-08-470-426B-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-17
; Sequence 17, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-17

Query Match 99.7%; Score 954.6; DB 3; Length 957;
Best Local Similarity 100.0%; Pred. No. 7e-287;
Matches 955; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAATAAAAGAAACCTAAACCGTGGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAATAAAAGAAACCTAAACCGTGGCCACAG 60
QY 61 GACGTTAAGTTCGCGGGGCGGCGCAGATCGTTGGCGAGTTTACTTTGGCCGCGCAGG 120
DB 61 GACGTTAAGTTCGCGGGGCGGCGCAGATCGTTGGCGAGTTTACTTTGGCCGCGCAGG 120
QY 121 GGGCCCAAGTGGGTGTGCGCGCCCAAGAAAGACTTGTGAACGGTCCACGACGTTGA 180
DB 121 GGGCCCAAGTGGGTGTGCGCGCCCAAGAAAGACTTGTGAACGGTCCACGACGTTGA 180
QY 181 AGGGCCAGCCCATCCCAAAAGATCGCGCGCACTGGCAAGTCTGGGGAGCGTCCAGGA 240
DB 181 AGGGCCAGCCCATCCCAAAAGATCGCGCGCACTGGCAAGTCTGGGGAGCGTCCAGGA 240
QY 241 TACCTTGGCCCTGTACGGGAAAGAGGCTCGGCTGGGAGGGGTGGCTCTGTCCGCC 300
DB 241 TACCTTGGCCCTGTACGGGAAAGAGGCTCGGCTGGGAGGGGTGGCTCTGTCCGCC 300
QY 301 CGGGGCTCTGGCCCTGTGGGGCCCAAGCCGCGGCAAGGTCAACCTTGGGT 360
DB 301 CGGGGCTCTGGCCCTGTGGGGCCCAAGCCGCGGCAAGGTCAACCTTGGGT 360
QY 361 AAGGTCATGATACCTCAGCGTGTGCTTGGSCAGCTCATGGGGTACATCACTGTGTC 420
DB 361 AAGGTCATGATACCTCAGCGTGTGCTTGGSCAGCTCATGGGGTACATCACTGTGTC 420
QY 421 GGGCCCTGTGGGGCGGCTTGCAGAGCCCTCGGCACTGGCGTGGCGGCTTGGAGAG 480
DB 421 GGGCCCTGTGGGGCGGCTTGCAGAGCCCTCGGCACTGGCGTGGCGGCTTGGAGAG 480
QY 481 GGGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 540
DB 481 GGGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 540
QY 541 CTCTGTCTGTATCAACCGTGGCTGTCTGCAATGAGTTAAGAAACAGGCACTT 600
DB 541 CTCTGTCTGTATCAACCGTGGCTGTCTGCAATGAGTTAAGAAACAGGCACTT 600
QY 601 TACATGCGAATAATGACTGTGCAATGAGCAATCGTCTGAGCTGAGGAGCGGCTG 660
DB 601 TACATGCGAATAATGACTGTGCAATGAGCAATCGTCTGAGCTGAGGAGCGGCTG 660
QY 661 CTTCATGTTCTGTGATGTGTCCCTGTGAGGATGAGTAAGAACCTTCTGTGGA 720
DB 661 CTTCATGTTCTGTGATGTGTCCCTGTGAGGATGAGTAAGAACCTTCTGTGGA 720
QY 721 GCGGCTGTGCGCAACGTGGCTGTGAGCGGCACTGGTGTCTCACTAGAGGCTGTG 780
DB 721 GCGGCTGTGCGCAACGTGGCTGTGAGCGGCACTGGTGTCTCACTAGAGGCTGTG 780
QY 781 CACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 840
DB 781 CACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 840
QY 841 TGGCGGCTGTGATGATGAGCGGCAAGTTGCGGTCTCACTAGAGGCTGTG 900
DB 841 TGGCGGCTGTGATGATGAGCGGCAAGTTGCGGTCTCACTAGAGGCTGTG 900
QY 901 GTCCAGGAATGCAATGCTCATATATACCAAGGCAATATCAAGGACATGATG 955
DB 901 GTCCAGGAATGCAATGCTCATATATACCAAGGCAATATCAAGGACATGATG 955
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1
RESULT 2

US-09-878-281A-143
; Sequence 143, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 957
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-143

Query Match 76.2%; Score 729; DB 3; Length 957;
Best Local Similarity 85.1%; Pred. No. 1.4e-216;
Matches 813; Conservative 1; Mismatches 141; Indels 0; Gaps 0;

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QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAATAAAAGAAACCTAAACCGTGGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAATAAAAGAAACCTAAACCGTGGCCACAG 60
QY 61 GACGTTAAGTTCGCGGGGCGGCGCAGATCGTTGGCGAGTTTACTTTGGCCGCGCAGG 120
DB 61 GACGTTAAGTTCGCGGGGCGGCGCAGATCGTTGGCGAGTTTACTTTGGCCGCGCAGG 120
QY 121 GGGCCCAAGTGGGTGTGCGCGCCCAAGAGAACTTGTGAACGGTCCACGACGTTGA 180
DB 121 GGGCCCAAGTGGGTGTGCGCGCCCAAGAGAACTTGTGAACGGTCCACGACGTTGA 180
QY 181 AGGGCCAGCCCATCCCAAAAGATCGCGCGCACTGGCAAGTCTGGGGAGCTCCAGGA 240
DB 181 AGGGCCAGCCCATCCCAAAAGATCGCGCGCACTGGCAAGTCTGGGGAGAAACAGGA 240
QY 241 TACCTTGGCCCTGTACGGGAAAGAGGCTCGGCTGGGCAAGGTTGCTGTCCGCC 300
DB 241 TACCTTGGCCCTGTACGGGAAAGAGGCTCGGCTGGGCAAGGTTGCTGTCCGCC 300
QY 301 CGGGGCTCTGGCCCTGTGGGGCCCAAGCCCGGCAAGGTCAACCTTGGGT 360
DB 301 CGAGGCTCTGGCCCGTATGAGGGGCCAATGACCCCGGCAAGGTCAACCTTGGGT 360
QY 361 AAGGTCATGATACCTCAGCGTGTGCTTGGSCAGCTCATGGGGTACATCACTGTGTC 420
DB 361 AAGGTCATGATACCTTACGTGTGCTTGGSCAGCTCATGGGGTACATCACTGTGTC 420
QY 421 GGGCCCTGTGGGGCGGCTTGCAGAGCCCTCGGCACTGGCGTGGCGGCTTGGAGAG 480
DB 421 GGGCCCTGTGGGTGTGTCGCGAGGCTCTGCGCATGAGGTTTGGAGAGAC 480
QY 481 GGGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 540
DB 481 GGGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 540
QY 541 CTCTGTCTGTATCAACCGTGGCTGTCTGCAATGAGTTAAGAAACAGGCACTT 600
DB 541 CTCTGTCTGTATCAACCGTGGCTGTCTGCAATGAGTTAAGAAACAGGCACTT 600
QY 601 TACATGCGAATAATGACTGTGCAATGAGCAATCGTCTGAGCTGAGGAGCGGCTG 660
DB 601 TACATGCGAATAATGACTGTGCAATGAGCAATCGTCTGAGCTGAGGAGCGGCTG 660
QY 661 CTTCATGTTCTGTGATGTGTCCCTGTGAGGATGAGTAAGAACCTTCTGTGGA 720
DB 661 CTTCATGTTCTGTGATGTGTCCCTGTGAGGATGAGTAAGAACCTTCTGTGGA 720
QY 721 GCGGCTGTGCGCAACGTGGCTGTGAGCGGCACTGGTGTCTCACTAGAGGCTGTG 780
DB 721 GCGGCTGTGCGCAACGTGGCTGTGAGCGGCACTGGTGTCTCACTAGAGGCTGTG 780
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QY 781 CACATTGATACCATGATGTCGCGCACCTCTGCTGCTGCTATACATAGGGAGCTTA 840
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Db 781 CACATTGATACCATGATGTCGCGCACCTCTGCTGCTGCTATACATAGGGAGCTTA 840
QY 841 TGGCGCGCTGTGATGATAGCAGCGCAAGTTCGCTGCTGACCGCAATACATACCTTT 900
|||
Db 841 TGTGGCGCGGTGATGTTGGCTTCTCAAGTCTTCATCATCTGCGCCGAGCATCATTAAGTTT 900
QY 901 GTCCAGGAATGCACTGCTCATATACCCAGGCATATACAGACATCCGAATG 955
|||
Db 901 GTCCAGGACTGCACTGTTCCATATACCCAGGCACATGACATCGATG 955

RESULT 3
US-08-836-075A-75
Sequence 75, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

Query Match 72.3%; Score 691.8; DB 3; Length 1195;
Best Local Similarity 81.8%; Pred. No. 6.2e-205;
Matches 780; Conservative 5; Mismatches 169; Indels 0; Gaps 0;

QY 1 ATGAGCAACAATCTCTAATCCCAAGAACTAAAGAAACATAACCTGCGCCACAG 60
|||
Db 239 ATGAGCAACAATCTCTAATCCCAAGAACTAAAGAAACATAACCTGCGCCACAG 298
|||
QY 61 GACGTTAAGTTCGCGCGCGCGCGCAGATCGTTGCGGAGTTTACTTGTTCGCCGCGAG 120
|||

Db 299 GACGTTAAGTTCGCGCGCGCGCGCAGATCGTTGCGGAGTTTACTTGTTCGCCGCGAG 358
|||
QY 121 GCGCCAGGTGTTGGTGTGCGCGCGCGCAAGGAAGATCTTGAAGGTCCGACCGAGGA 180
|||
Db 359 GAGCCAGGTGTTGGTGTGCGCGCGCGCAAGGAAGATCTTGAAGGTCCGACCGAGGA 418
|||
QY 181 AGCGCCAGCCATCCCAAGAAAGATCGCGCGCACTGGAAGTCTTGGGAGCGTCCAGA 240
|||
Db 419 AGCGCCAGCCATCCCGAAGAAAGATCGCGCGCACTGGAAGTCTTGGGAGCGTCCAGA 478
|||
QY 241 TACCTTGGCCCTGTAGCGGAAAGAGGCTTGGCTGGCGAGGGTGGCTTCTCCGCC 300
|||
Db 479 TATCCCTGCGCCCTGTATGGGAAAGAGGCTTGGCTGGCGAGGGTGGCTTCTCCGCC 538
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QY 301 CGGGGCTCTGCGCCCTGTATGGGCGCCAAAGACCCCGCGAGAGTCAACCACTTGGGT 360
|||
Db 539 CGGGGCTCTGCGCCCTGTATGGGCGCCCAAGACCCCGCGAGAGTCAACCACTTGGGT 598
|||
QY 361 AAGTCATGATACCTTCAGGTGCTTGGCGAGCTTCATGAGGATACATACCTGCTGC 420
|||
Db 599 AAGTCATGATACCTTCAGGTGCTTGGCGAGCTTCATGAGGATACATACCTGCTGC 658
|||
QY 421 GCGCGCCCTGTGCGCGCGCGTTCAGAGCCCTGCGAGATGCGGTGCGGTCTGAGAGAC 480
|||
Db 659 GCGCGCCAGTGAAGGCGTTCGCGAGAGCTTCGCGAGATGCGGTGCGGTCTGAGAGAC 718
|||
QY 481 GGGATTAATATGCAAGAGGAATCTGCGGTGCTCTTCTTCTTCTTCTTCTTCTTCT 540
|||
Db 719 GGGATTAATATGCAAGAGGAATCTGCGGTGCTCTTCTTCTTCTTCTTCTTCTTCT 778
|||
QY 541 CTCTGTCTTGTATACCGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
|||
Db 779 CTCTGTCTTGTATACCGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 838
|||
QY 601 TACATGCGACTAATGACTGTGCGCAATGACAGACATGCTGCGAGCTCAGGAGCGGTG 660
|||
Db 839 TACATGCGACTAATGACTGTGCGCAATGACAGACATGCTGCGAGCTCAGGAGCGGTG 898
|||
QY 661 CTCTGATTTCTGATGATGTCCTCTGAGAGAGTCAAGTAAATGAGACTTCTTGTGACA 720
|||
Db 899 CTCTGATTTCTGATGATGTCCTCTGAGAGAGTCAAGTAAATGAGACTTCTTGTGACA 958
|||
QY 721 GCGGTCTGCGCCAGCGGTGAGCGGAGCTGAGTCTCTCACTAGAGTCTGCGGGCT 780
|||
Db 959 CCACTACCGCTCAAGTGAAGTGAAGCGGAGCTGAGTCTCTCACTAGAGTCTGCGGGCT 1018
|||
QY 781 CACATTGATACCATGATGTCGCGCACCTCTGCTGCTGCTATACATAGGGAGCTTA 840
|||
Db 1019 CACATTGATACCATGATGTCGCGCACCTCTGCTGCTGCTATACATAGGGAGCTTA 1078
|||
QY 841 TGGCGCGCTGTGATGATAGCAGCGCAAGTTCGCTGCTGACCGCAATACATACCTTT 900
|||
Db 1079 TGTGGCGCGGTGATGTTGGCTTCTCAAGTCTTCATCATCTGCGCCGAGCATCATTAAGTTT 1138
|||
QY 901 GTCCAGGAATGCACTGCTCATATACCCAGGCATATACAGACATCCGAATG 954
|||
Db 1139 GTCCAGGACTGCACTGTTCCATATACCCAGGCACATGACATCGATG 1192
|||

RESULT 4
US-07-925-695-1
Sequence 1, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beverage, Degrandi, Wellacher & Young

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9589 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-2

Query Match 70.5%; Score 674.6; DB 2; Length 9589;
 Best Local Similarity 81.6%; Pred. No. 4.7e-199;
 Matches 779; Conservative 1; Mismatches 175; Indels 0; Gaps 0;

1 ATGAGCAAAATCTTAACTCAAGAAAACTAAAGAAACACTAAACCTGCGCCACAG 60
 341 ATGAGCAAAATCTTAACTCAAGAAAACTAAAGAAACACTAAACCTGCGCCACAG 400
 61 GAGCTTAAGTTCGG 120
 401 GAGCTTAAGTTCGG 460
 121 GGGCCCAAGTGG 180
 461 GGGCCCAAGTGG 520
 181 AGGCGCCAGCCCATCCCAAAAGATCGGCGCCCACTGCGCAAGTCTGGGGAAGTCA 240
 521 AGGCGCCAGCCCATCCCAAAAGATCGGCGCCCACTGCGCAAGTCTGGGGAAGTCA 580
 241 TACCTTGGGCGGCTGACGGGAAGAGGGCTCGGCTGGGGAAGTCTCTGCTCCCG 300
 581 TACCTTGGGCGGCTGACGGGAAGAGGGCTCGGCTGGGGAAGTCTCTGCTCCCG 640
 301 CGGGGCTCTGGCGGCTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 360
 641 CGAGGTTCCGTCCTCTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 700
 361 AAGGTATCATATCACTCACTGATGCTTGGGCGCACTCATGAGGATCATCTGCTG 420
 701 AAGGTATCATATCACTCACTGATGCTTGGGCGCACTCATGAGGATCATCTGCTG 760
 421 GGGCGGCTGAGGG 480
 761 GGGCGGCTGAGGG 820
 481 GGGGTAATATGAGAGAGGGAATGCGCGGCTGCTCTTATCTTCTGCTGCTGCT 540
 821 GGGGTAATATGAGAGAGGGAATGCGCGGCTGCTCTTATCTTCTGCTGCTGCT 880
 541 CTCTTCTTCTGATCACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
 881 CTCTTCTTCTGATCACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 940
 601 TACATGCGCACTAATGACTGTCGAATGACAGATCTGTCGAGCTCAAGGAGCGG 660
 941 TACATGCGCACTAATGACTGTCGAATGACAGATCTGTCGAGCTCAAGGAGCGG 1000
 661 CTTCATGTCCTGATGATGTCCTGTCGAGAGGTCAGAGATATAGAGCTTCTGTTG 720
 1001 CTTCATGTCCTGATGATGTCCTGTCGAGAGGTCAGAGATATAGAGCTTCTGTTG 1060
 721 GCGGCTTCGCGCAAGTGTGATGAGCGCACTGCTGCTCACTAAGGTCGCGGCT 780
 1061 GCGGCTTCGCGCAAGTGTGATGAGCGCACTGCTGCTCACTAAGGTCGCGGCT 1120
 781 CACATTAATCACTGATGATGTCGCGCACTGCTGCTGCTGCTGCTGCTGCTGCT 840
 1121 CACATTAATCACTGATGATGTCGCGCACTGCTGCTGCTGCTGCTGCTGCTGCT 1180
 841 TGCGGCGCTGATGATGATGAGCGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCT 900
 1181 TGCGGCGCTGATGATGATGAGCGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCT 1240
 901 GTCCAGAAATGCACTGCTCATATACCAAGGCGCATATCAAGAGCATCGAATGG 955

Db 1241 GTCCAGAAATGCACTGCTCATATACCAAGGCGCATATCAAGAGCATCGAATGG 1295

RESULT 6
 US-07-925-695-6
 Sequence 6, Application US/07925695
 Patent No. 5428145
 GENERAL INFORMATION:
 APPLICANT: OKAMURA, Hiroaki
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
 STREET: 1850 M Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: US
 ZIP: 20036

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/925,695
 FILING DATE: 19920807
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Wellacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: WUI 64470

INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-6

Query Match 66.9%; Score 640.6; DB 2; Length 9511;
 Best Local Similarity 62.9%; Pred. No. 1.8e-188;
 Matches 601; Conservative 159; Mismatches 195; Indels 0; Gaps 0;

1 ATGAGCAAAATCTTAACTCAAGAAAACTAAAGAAACACTAAACCTGCGCCACAG 60
 342 ATGAGCAAAATCTTAACTCAAGAAAACTAAAGAAACACTAAACCTGCGCCACAG 401
 61 GAGCTTAAGTTCGG 120
 402 GAGCTTAAGTTCGG 461
 121 GGGCCCAAGTGG 180
 462 GGGCCCAAGTGG 521
 181 AGGCGCCAGCCCATCCCAAAAGATCGGCGCCCACTGCGCAAGTCTGGGGAAGTCA 240
 522 GAGCGCCAGCCCATCCCAAAAGATCGGCGCCCACTGCGCAAGTCTGGGGAAGTCA 581

QY 241 TACCCTTGAGCCCTGTATACGAGGAGGCTCGAGTGGAGGAGGCTCTGCTCCCC 300
Db 582 UAUCUUUGGCCCCGUAACGAAAGAGGUGUGCGGUGGAGGUGUGGCTCUCUCCCC 641
QY 301 CGGGGCTCTGCGCCCTGTGGGGCCCAACGACCCCGGACAGGTCAACGCACTTGGGT 360
Db 642 CGCGGGUCUCGUCUACUGGGGGCCCAACGACCCCGGACAGGTCAACGCACTTGGGT 701
QY 361 AAGGTCAATGATACCTCACTGATGAGGCTTGGAGGAGGAGGAGGAGGAGGAGGAGG 420
Db 702 AGAAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACG 761
QY 421 GGGGCCCCCTGTGGGCGGCTTGCAGAGCCCTCGAGAGGAGGAGGAGGAGGAGGAGGAG 480
Db 762 GGGGCCCCGUYGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 821
QY 481 GGGATTAATTAATGCAACGAGGAACTTGGCCGCTGCTCTTCTTCTTCTTCTTCTTCT 540
Db 822 GGGAAUAAUUAACGCAACGAGGAAUUAACGAGGAGGAGGAGGAGGAGGAGGAGGAG 881
QY 541 CTCTTGTCTGTATACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
Db 882 CUUCUGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUAC 941
QY 601 TACATGAGCACTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Db 942 UACUACGCACTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1001
QY 661 CTCATGTTCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Db 1002 CUCCAUUCUUCGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAG 1061
QY 721 GGGGCTCGCCCAAGT 780
Db 1062 CAAGAATACCTCACTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1121
QY 781 CACATGATACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 840
Db 1122 CAGUCGCACTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1181
QY 841 TGGGCGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Db 1182 UGCGGGGCGGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAG 1241
QY 901 GTCCAGGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 955
Db 1242 ACCCAAGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUAC 1296

RESULT 7
US-07-925-695-7
Sequence 7, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME.
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-7

Query Match 66.9%; Score 640.6; DB 2; Length 9511;
Best Local Similarity 79.0%; Pred. No. 1,8e-188;
Matches 754; Conservative 6; Mismatches 195; Indels 0; Gaps 0;

QY 1 ATAGACCAAAATCTTAACTCAAGAAATAATTAAGAAACATTAACGTCGCCACAG 60
Db 342 ATAGACCAAAATCTTAACTCAAGAAATAATTAAGAAACATTAACGTCGCCACAG 401
QY 61 GAGTTAAGTTCCTGGGCGGCGGCGGAGATGTTGGGAGTTTACTTGTTCGGCGGAGG 120
Db 402 GAGTTAAGTTCCTGGGCGGCGGCGGAGATGTTGGGAGTTTACTTGTTCGGCGGAGG 461
QY 121 GGGCCCAAGTGGGATGTGCGCGGCGGCAAGAGAGCTTGTGAGCGATCCAGCAGTGA 180
Db 462 GGGCCCAAGTGGGATGTGCGCGGCGGCAAGAGAGCTTGTGAGCGATCCAGCAGTGA 521
QY 181 AGGCGCCAGCCATCCCAAAAGATCGGCGGCGCACTGGCAAGTCTGGGGAGCTCCAGGA 240
Db 522 GCAAGCCAGCCATCCCAAAAGATCGGCGGCGCACTGGCAAGTCTGGGGAGAGGCAAGA 581
QY 241 TACCCTTGAGCCCTGTATACGAGGAGGCTCGAGTGGAGGAGGAGGAGGAGGAGGAGG 300
Db 582 TATCTTGGCCCTGTATACGAGGAGGCTCGAGTGGAGGAGGAGGAGGAGGAGGAGG 641
QY 301 CGGGGCTCTGCGCCCTGTGTGGGGCCCAACGACCCCGGACAGGTCAACGCACTTGGGT 360
Db 642 CGGGGCTCTGCTGTCTTATTTGGGGCCCAACGACCCCGGACAGGTCAACGCACTTGGGT 701
QY 361 AAGGTCAATGATACCTCACTGATGAGGCTTGGAGGAGGAGGAGGAGGAGGAGGAGG 420
Db 702 AGAAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACG 761
QY 421 GGGGCCCCCTGTGGGCGGCTTGCAGAGCCCTCGAGAGGAGGAGGAGGAGGAGGAGGAG 480
Db 762 GGGGCCCCGUYGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 821
QY 481 GGGATTAATTAATGCAACGAGGAACTTGGCCGCTGCTCTTCTTCTTCTTCTTCTTCT 540
Db 822 GGGAAUAAUUAACGCAACGAGGAAUUAACGAGGAGGAGGAGGAGGAGGAGGAGGAG 881
QY 541 CTCTTGTCTGTATACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
Db 882 CUUCUGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACGAGUACG 941
QY 601 TACATGAGCACTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Db 942 TACATGAGCACTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1001

Qy 661 CTCGATGTCCTGATGATGTCCTGTCGAGAGTCAGTAATAGACCTTCCTGTCGACA 720
 Db 1002 CTCGATGTCCTGATGATGTCCTGTCGAGAGTCAGTAATAGACCTTCCTGTCGACA 1061
 Qy 721 GCGGCTCGCCCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 780
 Db 1062 CAGTCACACCCACGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1121
 Qy 781 CACATGATACCATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 840
 Db 1122 CAGTCACATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1181
 Qy 841 TCGGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 900
 Db 1182 TCGGCGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1241
 Qy 901 GTCCAGGATGCAATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 955
 Db 1242 ACCCAAGTCGCAATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1296

RESULT 8

US-09-014-416-4
 ; Sequence 4, Application US/09014416
 ; Patent No. 6153421
 ; GENERAL INFORMATION:
 ; APPLICANT: Yanagi, Masayuki
 ; APPLICANT: Buhk, Jens
 ; APPLICANT: Emerson, Susanne U.
 ; APPLICANT: Pucell, Robert H.
 ; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
 ; FILE OF INVENTION: USES THEREOF
 ; FILE REFERENCE: 20264276
 ; CURRENT APPLICATION NUMBER: US/09/014,416
 ; CURRENT FILING DATE: 1998-01-27
 ; EARLIER APPLICATION NUMBER: US 60/053,062
 ; EARLIER FILING DATE: 1997-07-18
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 4
 ; LENGTH: 9595
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C virus
 US-09-014-416-4

Query Match 54.3%; Score 519.4; DB 3; Length 9595;
 Best Local Similarity 71.4%; Pred. No. 1.1e-150;
 Matches 682; Conservative 1; Mismatches 272; Indels 0; Gaps 0;

Qy 1 ATGAGCAAAATCTTAACCTCAAGAAAACCTAAAGAAACCTAAACCTAAACCTAAACCTAAACCT 60
 Db 342 ATGAGCAAAATCTTAACCTCAAGAAAACCTAAAGAAACCTAAACCTAAACCTAAACCTAAACCT 401
 Qy 61 GACGTTAAGTCCCGGGCGGCGGCGGCAATCGTTGCGGAGTTTACTTGTGTCGCGGCAAG 120
 Db 402 GACGTTAAGTCCCGGGCGGCGGCGGCAATCGTTGCGGAGTTTACTTGTGTCGCGGCAAG 461
 Qy 121 GGGCCCAAGTTGGGTGTCGCGGCGGCAAGAACTTGTGAACGCTCCAGCCACGTCGTA 180
 Db 462 GGGCCCAAGTTGGGTGTCGCGGCGGCAATCGTTGCGGAGTTTACTTGTGTCGCGGCAAG 521
 Qy 181 AGGGCGGAGCCATCCCAAAAGATCGGGCGGCGCACTGGGCAAGTCTTGGGAGCGTCGAGGA 240
 Db 522 AGGGCGGAGCCATCCCAAAAGATCGGGCGGCGCACTGGGCAAGTCTTGGGAGCGTCGAGGA 581
 Qy 241 TACCTTGGCCCTGTATCGGGAACGAGGCTCGGCTGCGGAGGTCGCTCTGTCGCGC 300
 Db 582 TACCTTGGCCCTGTATCGGGAACGAGGCTCGGCTGCGGAGGTCGCTCTGTCGCGC 641
 Qy 301 GCGGCTCTGCGCCCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 360
 Db 642 GCGGCTCTGCGCCCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 701

Qy 361 AAGTCATCATACCTCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
 Db 702 AAGTCATCATACCTCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 761
 Qy 421 GCGGCTCTGCGCCCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 480
 Db 762 GCGGCTCTGCGCCCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 821
 Qy 481 GGGATTAATATCAACAGGAACTTGGCGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 540
 Db 822 GGGATTAATATCAACAGGAACTTGGCGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 881
 Qy 541 CTCTGTCCTGTCATCAACGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 600
 Db 882 CTCTGTCCTGTCATCAACGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 941
 Qy 601 TACATGCGCACTATGACTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 660
 Db 942 TACATGCGCACTATGACTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1001
 Qy 661 CTCGATGTCCTGATGATGTCCTGTCGAGAGTCAGTAATAGACCTTCCTGTCGACA 720
 Db 1002 ATGCAATCTCCCGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1061
 Qy 721 GCGGCTCGCCCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 780
 Db 1062 GCGGCTCGCCCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1121
 Qy 781 CACATGATACCATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 840
 Db 1122 CACATGATACCATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1181
 Qy 841 TCGGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 900
 Db 1182 TCGGCGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1241
 Qy 901 GTCCAGGATGCAATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 955
 Db 1242 GTCCAGGATGCAATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 1296

RESULT 9

US-09-014-416-6
 ; Sequence 6, Application US/09014416
 ; Patent No. 6153421
 ; GENERAL INFORMATION:
 ; APPLICANT: Yanagi, Masayuki
 ; APPLICANT: Buhk, Jens
 ; APPLICANT: Emerson, Susanne U.
 ; APPLICANT: Pucell, Robert H.
 ; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
 ; FILE OF INVENTION: USES THEREOF
 ; FILE REFERENCE: 20264276
 ; CURRENT APPLICATION NUMBER: US/09/014,416
 ; CURRENT FILING DATE: 1998-01-27
 ; EARLIER APPLICATION NUMBER: US 60/053,062
 ; EARLIER FILING DATE: 1997-07-18
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 9599
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C virus
 US-09-014-416-6

Query Match 54.3%; Score 519.4; DB 3; Length 9599;
 Best Local Similarity 71.4%; Pred. No. 1.1e-150;
 Matches 682; Conservative 1; Mismatches 272; Indels 0; Gaps 0;

Qy 1 ATGAGCAAAATCTTAACCTCAAGAAAACCTAAAGAAACCTAAACCTAAACCTAAACCTAAACCT 60
 Db 342 ATGAGCAAAATCTTAACCTCAAGAAAACCTAAAGAAACCTAAAGAAACCTAAACCTAAACCT 401

Db 1170 TGGCGGTCTCTCTTCTTGTGTGTCACACTGTTTACCTTCTCCAGGCGCCACTGAGC 1229
Qy 901 GTCCAGGAATGCACTGCTCATATACCAGGACCATATACAGACATCGAATG 955
Db 1230 ACGCAAGACTGCAATGTTTCTATCTATCCGCGCATATAAGGAGTCATGATG 1284

RESULT 11

US-08-811-566-5
; Sequence 5, Application US/08811566
; Patent No. 6127116
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; STREET: Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/811,566
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1113-1-006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12980 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEITICAL: NO
; ANTI-SENSE: NO
; US-08-811-566-5

Query Match 53.9%; Score 516.2; DB 3; Length 12980;
Best Local Similarity 71.2%; Pred. No. 1.3e-149;
Matches 680; Conservative 1; Mismatches 274; Indels 0; Gaps 0;

Qy 1 ATGAGCAAAATCTCTAAACCTCAAGAAATACTAAAGAAACATAACCGTCCGACAG 60
Db 342 ATGAGCAAAATCTCTAAACCTCAAGAAATACTAAAGAAACATAACCGTCCGACAG 401
Qy 61 GACGTAAATTCCTCCGCGCGCGCGCGAGTCGTCGAGATTACTTGTTCGCGGAG 120
Db 402 GACGTAAATTCCTCCGCGCGCGCGCGAGTCGTCGAGATTACTTGTTCGCGGAG 461
Qy 121 GGGCCCAAGTTGGGTGTGCGCGCGCGCAAGAAAGCTTGTGAAGCGTCCAGCGTGA 180
Db 462 GGGCCCAAGTTGGGTGTGCGCGCGCGCAAGAAAGCTTGTGAAGCGTCCAGCGTGA 521
Qy 181 AGGCGCAGAGCCATCCCAAAAGATCGCGCGCGCACTGGCAAGTCTGGGGAAGTCAAG 240
Db 522 AGAGCTAGAGCTATCCCAAGAGCAGTGTGCGCGCGCAAGAGGAGCTGGGCTCAAGCT 581
Qy 241 TACCTTGGCCCTGTACGGAACGAGGAGCTGCGCTGGGAGGAGTGGCTCTGCTCC 300

Db 582 TACCTTGGCCCTGTACGGAATGAGGAGTGTGCGGAGTGGGAGTGGCTCTGCTCC 641
Qy 301 CGGGGCTCTGCGCCCTCTGTGGGGGCGCAAGACCCCGGAGAGTCAAGCAACTTGGGT 360
Db 642 CGTGGCTCTGCGCCCTCTGTGGGGGCGCAAGACCCCGGAGAGTGGGAGTGGCAATTTGGGT 701
Qy 361 AAGGTATGATTAACCTCACTGTCGTCCTTGTGAGGAGTCAAGGAGTCAATACCTGTGTC 420
Db 702 AAGGTATGATTAACCTCACTGTCGTCCTTGTGAGGAGTCAAGGAGTCAATACCTGTGTC 761
Qy 421 GGGCCCTCTGTGGGCGCGCTTGTCCAGAGCCCTGTGCGAGTGGCGGTCTGAGAGAC 480
Db 762 GGGCCCTCTGTGGGCGCGCTTGTCCAGAGCCCTGTGCGAGTGGCGGTCTGAGAGAC 821
Qy 481 GGGATTAATATGAAAGAGGAACTTGGCGGTTGCTCTTCTATCTTCTGTCGAGCT 540
Db 822 GGGTGAATCTATGAAAGAGGAACTTGGCGGTTGCTCTTCTATCTTCTGTCGAGCT 881
Qy 541 CTCTTGTCTGTATACCGCTGCGCGGTGTGCGCAATACAGGTTAAGAACAGCAGCTTC 600
Db 882 CTGCTCTTGTGCTGACCGGTGCGCGGTGTGCGCAATACAGGTTAAGAACAGCAGCTTC 941
Qy 601 TACATGCGACTAATGACTGTGCTCAATGACAGATGCTTGGCAGCTCAGGAGCGCGT 660
Db 942 TACATGCTACCAATGATGCTGCTCAATGACAGATGCTTGGCAGCGCGGAGTGCATC 1001
Qy 661 CTGATTTCTGATGATGTCCTGCTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 720
Db 1002 CTGACACTCGGGGAGTGTGCTTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 1061
Qy 721 GCGGTCTGCGCAAGCGGTGTGAGAGCGGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 780
Db 1062 GCGGTGACCCCGACGAGTGTGAGAGCGGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 1121
Qy 781 CAATGATTAACATGATGATGTCGCGCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
Db 1122 CATATCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1181
Qy 841 TGGGGGCTGTGATGATGAGAGGCAAGTGTGCGGTGTGCTGCGCAATACATCTTT 900
Db 1182 TGGGGGCTGTGATGATGAGAGGCAAGTGTGCGGTGTGCTGCGCAATACATCTTT 961
Qy 901 GTCCAGGAATGCAACTGCTCATATACCAGGACCATATACAGACATCGAATG 955
Db 1242 ACGCAAGACTGCAATGTTTCTATCTATCCGCGCATATAAGGAGTCAATGATG 1296

RESULT 12

US-09-034-756-5
; Sequence 5, Application US/09034756
; Patent No. 6392028
; GENERAL INFORMATION:
; APPLICANT: RICE, CHARLES et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOMEEL & HABERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MO
; COUNTRY: USA
; ZIP: 63105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/034,756
; FILING DATE: 04-May-1998
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:

NAME: HOLLAND, DONALD R.
REGISTRATION NUMBER: 35,197
REFERENCE/DOCKET NUMBER: 6029-4831
TELECOMMUNICATION INFORMATION:
TELEPHONE: 314-727-5188
TELEFAX: 314-727-6092
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 12980 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-034-756-5

Query Match	53.9%;	Score 516.2;	DB 3;	Length 12980;
Best Local Similarity	71.2%;	Pred. No. 1.3e-149;		
Matches 680; Conservative	1;	Mismatches 274;	Indels 0;	Gaps 0;

OY	1	TTGAGCAAAATTCCTAAACCTCAAGAAAATAAAGAAACATACCGTCCGACAG	60
Db	342	ATGAGCAAGAAATCTTAAACTCTAAAGAAAACAAACGTAAACCAACCGTCCACAG	401
OY	61	GACGTAAAGTTCCTCCGGGCGGCGGACAGATCGTTGGCGAGATTACTTTGCGCGCAG	120
Db	402	GACGTCAAGTTCCTCCGGGTGGCGGTGACATCGTTGGTGAATTTACTTTGTCCGGCGAG	461
OY	121	GGCCCCAGGTTGGGTGGTGGCGCGCCAAAGAAAGACTTCTGAACGGTCCGAGCAGTGA	180
Db	462	GGCCCTTAATTTGGGTGGTGGCGCGCAGAGAAAGCTTCGAGCGGTCCCAACTTCGAGGT	521
OY	181	AGGCGCCAGCCCATCCCAAAAATGGGCGCGCCTACTGGCAAGTCCCTGGGGAGCTCAGGA	240
Db	522	AGACCTCAAGCTTATCCCAAGGCAAGTGGCCCGAGGGAGGAACTTGGGCTTAGCCCGGG	581
OY	241	TACCTTAAAGCCCTGTATACGGGAAACAGGGCTCGGCTGGGCGGGTGGCTCTGTCCCC	300
Db	582	TACCTTGGCCCTCTATAGGCAATAGAGGTTGGGGTGGGCGGAGTGGCTCTGTCTCC	641
OY	301	CGGGGCTCTCGCCCTCGTGGGGCCAAACGACCCCGGACAGTCAAGCAACTTGGGT	360
Db	642	CGTGGCTCTCGGCTAGCTGGGGGCCCAACAGACCCCGGCGTAGGTCCGCAATTTGGGT	701
OY	361	AAAGTCATCGAATACCTTCAACGTGTGGCTTGGCGAATCAGGGGTATATACCTGTCCGT	420
Db	702	AAAGTCATCGAATACCTTCAAGCGGCTTGGCGAATCTATGGGGTAACTAACCTCGCTCTC	761
OY	421	GGCGGCCCTGTGGGGCGGCTTSCACAGGCTCTCGGCATAGCGGTCCGTGAGAGAC	480
Db	762	GGCGGCCCTCTTGGAGGCGCTGCCAGGGCTCTGGGCGCATGGGTCCGGGTTCTGGAAAGC	821
OY	481	GGGATAAATTATGCAACAGGGAACCTTGGCCGGTCTCCCTTTCTATCTTCTGTGGCT	540
Db	822	GGCGTGAATATGCAACAGGGAACCTTCTGGTGTCTTTCTATCTTCTTCTGGCC	881
OY	541	CTCTTGTCTTGTATACCGGTGCCGTGTGTGCCATACAGSTTAAAGAACAAAGCCACTTC	600
Db	882	CTGCTCTCTTGTCTTAACCGTGGCCGCTTCAAGCTTCAAGTGGGCAATTCCTCGGGGCTT	941
OY	601	TACATGGGCACTAAATGACTGTGCCAATGACACATCGTGTGCAGCTCAGGAGCCGGTG	660
Db	942	TACATGTCAACCAATGATTTGCCCTTAATCTGAGTATTTGTATACGAGCGGCGATGCCATC	1001
OY	661	CTCCATGTTCTTGAATGTGTCCCTGTGTGAAGGTCAAGTAATAGAACCTTCTGTTGACA	720
Db	1002	CTGCACACTCCGGGGGTGTGTCCCTTGTGCGTAGGGTAAAGCCCTCGAGGTGTGGGTG	1061
OY	721	GGGTCTCGCCCAACGTGGCTGTGAGCCGACCTGGTGCTCTCACTAAGAGTCTGGGGCT	780
Db	1062	GGGTGATCCCTCCACGGTGGCCACAGAGGAGCGGCAAACTCCCAACAACGACGTTGACGCT	1121

QY	781	CACATTGATACCAATCGGATGATCCGCCACCCCTTGGCTCTGCTGCCATTATCATATAGGGGACTTA	840
Db	1122	CATATCGATCTGCTTGTCTCGGAGGGCCACCTCTGCTCTCGGCGCCCTTACGTGGGGAACTTG	1181
QY	841	TGCGGCGCTGTGATGATAGACAGGCCCAAGTGGCGCTGTCACCGCAATACATCTTT	900
Db	1182	TGCGGATCTGTCTTCTTGTGTGATCAACTGTTTACCTTCTCTCCAGCGCACTGGACG	1241
QY	901	GTCGAGGAATCAACTGCTCCATATPACCGGCGCATATPACAGGACATCGAATGG	955
Db	1242	ACGGAAGCTGCAATTGTTATCTATCTATCCGGCCATATTAACGGGTCTATCGCATGG	1296

RESULT 13
US-10-259-275-39

Query	Match	53.8%	Score 514.6	DB 3	Length 9275
Best Local Similarity	71.1%	Pred. No. 3.3e-149			
Matches	679	Conservative	1	Mismatches	275
				Indels	0
				Gaps	0
Qy	1	ATGAGCACAATAATCCCTAAACCTCAAGAAAAACCTAAAGAAACCTTAACCGTGCCACAG	60		
Db	1	ATGAGCACAATAATCCCTAAACCTCAAGAAAAACCAACGTAACCAACGACCGCCACAG	60		
Qy	61	GACGTTAAGTTCCCGGGCGCGGACAGATCGTTGGCGAGTTACTGTGTGCGCGACAG	120		
Db	61	GACGTCAAGTTCCCGGGCGGTGTGTCAATCGTTGGAGGTTTACTGTGTGCGCGACAG	120		
Qy	121	GGCCCCAGGTGGGTGGTGGCGCGCCCAAGAGAATCTTGAAACGATCCAGCCACGTGA	180		
Db	121	GGCCCCAGGTGGGTGGTGGCGCGCATCAGAGAATCTTCCGAGCGGTGCGAACCCCGTGA	180		
Qy	181	AGCGCCAGCCCATCCCAAAAGATCGCGCGCCACTGCGAAGTCTGGGAGCGTCCAGGA	240		
Db	181	AGCGCAGACCTATCCCAAGGCTCGCGGCCGAGGGCAGGGGCTGGGCTCAGGCCGGG	240		
Qy	241	TACCTTGGCCCTCTGTACGGGAACGAGGGCTTCGCTGGGACGAGGTGCTCTGTCCCC	300		
Db	241	TATCTTGGCCCTCTCATGTGCAATAGGGCATGGGGTGGGACGAGATGGCTCTGTACCC	300		
Qy	301	CGGAGCTCTCGCCCTCGTGGGGCCCAACGACCCCCGSCACAGGTCAAGCAATCTTGGGT	360		
Db	301	CGCGGCTCCGGGCTTAAGTTGGGGCCCAACGACCCCCGCGTAAGGTTCGGTATTTGGGT	360		
Qy	361	AAGGTATCATACCTCTCAGTGTGGCTTTGSCAGACTCATGGGGTACATTAACCTGTCTC	420		

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Db 361 AAGTCATCGATACCTCAGATGCGGCTCGCCGACCTCATGGGGTACATTCGCTGTC 420
Qy 421 GGGCCCCCTGTGGCGGGGTTGGCCAGAGCCTCGCGCATGGCGGGTCTTGGAGAC 480
Db 421 GGGCGCCCCCTTAAAGGGGGGCTGCGAGGGCTTTGGCACTGGTGTCCGGTCTTGGAGAC 480
Qy 481 GGGATTAATTAATGCAAGGGAACCTTGGCCGGTGTCTCTTTCTATCTTCTGAGCT 540
Db 481 GGGGTGAATTAATGCAAGGGAACCTTGGCCGGTGTCTCTTTCTATCTTCTGAGCT 540
Qy 541 CTCTGTCTTGTATACCGGTGCGCGGTGTGCTGCAATACAGTTAAACAACAGCCACTTC 600
Db 541 CTGCTGTCTGTGACCGGTGCAAGCTTCGCTCATGAAGTGGTAAAGCGGTGCGGGGTA 600
Qy 601 TACATGCGCATTAATGACTGTGCAATGACGATCTGTGAGCACTGAGGAGCGGCTG 660
Db 601 TACCATGTGCAAGAACGACTGTCTCAACTCAAGCAATGTGTGAGGGCGGCACTTGAATC 660
Qy 661 CTCCATGTCTCTGATGTGCTCCCTGTGAGAGTCAAGTAAATAGAACCTTCTGTGACA 720
Db 661 ATGATATCTCCCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Qy 721 GCGGTCTGCGCCCAAGTGTGAGCCGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Db 721 GCGCTCACTCCCAAGTGTGAGCCGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Qy 781 CACATTTGATACATCTGATGTGCGGCAACCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db 781 CACATTTGATACATCTGATGTGCGGCAACCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Qy 841 TGGGCGCTGTGATGATGATGAGCGGCAAGTTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Db 841 TGGGATGTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Qy 901 GTCCAGGATGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 955
Db 901 GTTGAGAGCTGCAATGTGTGATCTACCCGCGCAAGCTGATGATGATGATGATGATGATGAT 955

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RESULT 14
US-08-823-895A-26
; Sequence 26, Application US/08823895A
; Patent No. 6433159
; GENERAL INFORMATION:
; APPLICANT: Kevin P. Anderson
; TITLE OF INVENTION: Compositions And Methods For
; TITLE OF INVENTION: Treatment Of Hepatitis C Virus-Associated Diseases
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jane Massey Licata, Esq.
; STREET: 66 E. Main Street
; CITY: Marlton
; STATE: NJ
; COUNTRY: USA
; ZIP: 08053
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
; COMPUTER: IBM 486
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/823,895A
; FILING DATE: March 17, 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/453,085
; FILING DATE: May 30, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/945,289
; FILING DATE: September 10, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane Massey Licata

```

```

; REGISTRATION NUMBER: 32,257
; REFERENCE/DOCKET NUMBER: ISPH-0203
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (609) 779-2400
; TELEFAX: (609) 810-1454
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9416
; TYPE: Nucleic
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: NO
; US-08-823-895A-26

Query Match      53.8% Score 514.6; DB 3; Length 9416;
Best Local Similarity 71.1%; Pred. No. 3.3e-149;
Matches 679; Conservative 1; Mismatches 275; Indels 0; Gaps 0;

Qy 1 ATGAGCAAAATCTTAACTCAAGAAAACTAAAGAAACAATAACCGTGGCCACAG 60
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Qy 61 GACGTTAAGTTCCTGGGCGGCGCAGATGTTGGCGGAGTTTACTTTGTCGGCGCAGG 120
Db 402 GACGTTAAGTTCCTGGGCGGCGCAGATGTTGGCGGAGTTTACTTTGTCGGCGCAGG 461
Qy 121 GGGCCCAAGTTGGGTGTGCGGCGCAAGGAAGACTTCTGAAGGTCCAGCCAGCGGA 180
Db 462 GGGCTTGAATGAGTGTGCGGCGCAAGGAAGACTTCTGAAGGTCCAGCCAGCGGA 521
Qy 181 AGGCGCAGCCATCCCAAAAGATCGCGCCACTGGCAAGTCTGGGAGCTCCAGGA 240
Db 522 AGAGCTAGCTATCCCAAGGACAGTCCGCGCCAGAGGAGAGACTGGGTCAAGCCCGG 581
Qy 241 TACCTTTGCGCTGTGACGGAAGCAAGGCTGTGCGGCAAGGTTGCTGCTGCTGCTGCT 300
Db 582 TACCTTTGCGCTGTGACGGAAGCAAGGCTGTGCGGCAAGGTTGCTGCTGCTGCTGCT 641
Qy 301 CGGGGCTTGGCGCTGCGGCGGCGCAAGGAGCCCGGCAAGGTCAAGCACTTGGGT 360
Db 642 CGTGGCTTGGCGCTGCGGCGGCGCAAGGAGCCCGGCAAGGTCAAGCACTTGGGT 701
Qy 361 AAGTCATGATACCTCAGTGTGCTTGTGCGACTCATGAGGATACATACCTGTGCTGTC 420
Db 702 AAGTCATGATACCTCAGTGTGCTTGTGCGACTCATGAGGATACATACCTGTGCTGTC 761
Qy 421 GGGCGCCCTGTGGCGGCGGTTGCAAGCCCTGCGGCAAGGCTGTGCGGCTGTGAGAGAC 480
Db 762 GGGCGCCCTGTGGAGGCGGCTGCAAGGCGCTGCGGCAAGGCTGTGCGGCTGTGAGAGAC 821
Qy 481 GGGATTAATTAATGCAAGGGAACCTTGGCCGGTGTCTCTTTCTATCTTCTGAGCT 540
Db 822 GGGGTGAATTAATGCAAGGGAACCTTGGCCGGTGTCTCTTTCTATCTTCTGAGCT 581
Qy 541 CTCTGTCTTGTATACCGGTGCGCGGTGTGCTGCAATACAGTTAAACAACAGCCACTTC 600
Db 882 CTGCTCTTGTCTGATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 941
Qy 601 TACATGCGCATTAATGACTGTGCAATGACGATGCTGTGAGAGTCAAGGAGCGGCTG 660
Db 942 TACCATGTACCAATGATGCTTAACTGAGTGTGTGACAGAGGCGGCGCATGCTATC 1001
Qy 661 CTCCATGTCTGATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Db 1002 CTGCACTCTCGGAGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1061
Qy 721 GCGGTCTGCGCCCAAGCTGTGAGCCGACCTGTGCTCTCACTAAGGCTGTGCGGCTG 780
Db 1062 GCGGTGACCCCAAGCTGTGAGCCGACCAAGGAGCAAGCACTCCCAACAGCACTGACGT 1121
Qy 781 CACATTTGATACATCTGATGTGCGGCAACCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db 1122 CATATGATGTGCTGTGCGGAGCGCACCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1181

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-19

Perfect score: 447

Sequence: 1 gacggggaatcatgcacac.....aggatcgaatgttccatc 447

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

- Issued Patents NA:*
- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
 - 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
 - 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
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 - 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
 - 6: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
 - 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
 - 8: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
 - 9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	447	100.0	447	3	US-08-836-075A-19
2	300.4	67.2	957	3	US-08-836-075A-17
3	289.4	64.7	1195	3	US-08-836-075A-75
4	288.4	64.5	579	3	US-08-836-075A-15
5	284.4	63.6	957	3	US-09-878-281A-143
6	273.2	61.1	447	3	US-08-836-075A-23
7	272.6	61.0	9589	2	US-07-925-695-1
8	272.6	61.0	9589	2	US-07-925-695-2
9	257.8	57.7	9511	2	US-07-925-695-6
10	257.8	57.7	9511	2	US-07-925-695-7
11	226.4	50.6	356	3	US-08-836-075A-25
12	221.6	49.6	576	2	US-08-086-428B-27
13	221.6	49.6	576	2	US-08-468-570-27
14	221.6	49.6	576	2	US-08-290-665A-27
15	221.6	49.6	576	3	US-08-466-601A-27
16	221.6	49.6	576	6	PCT-US95-10398-27
17	219.6	49.1	576	2	US-08-086-428B-28
18	219.6	49.1	576	2	US-08-468-570-28
19	219.6	49.1	576	2	US-08-290-665A-28
20	219.6	49.1	576	3	US-08-466-601A-28
21	219.6	49.1	576	6	PCT-US95-10398-28
22	219.4	48.5	333	6	US-08-634-797-25
23	216.8	48.5	576	2	US-08-086-428B-26
24	216.8	48.5	576	2	US-08-468-570-26

25	216.8	48.5	576	2	US-08-290-665A-26	Sequence 26, Appl
26	216.8	48.5	576	3	US-08-466-601A-26	Sequence 26, Appl
27	216.8	48.5	576	6	PCT-US95-10398-26	Sequence 26, Appl
28	215.2	48.1	333	2	US-08-634-797-26	Sequence 26, Appl
29	215	48.1	576	2	US-08-086-428B-29	Sequence 29, Appl
30	215	48.1	576	2	US-08-468-570-29	Sequence 29, Appl
31	215	48.1	576	2	US-08-290-665A-29	Sequence 29, Appl
32	215	48.1	576	3	US-08-466-601A-29	Sequence 29, Appl
33	215	48.1	576	6	PCT-US95-10398-29	Sequence 29, Appl
34	213	47.7	333	2	US-08-634-797-24	Sequence 24, Appl
35	201.8	45.1	333	2	US-08-634-797-21	Sequence 21, Appl
36	200.2	44.8	333	2	US-08-634-797-31	Sequence 31, Appl
37	196.4	43.9	576	2	US-08-086-428B-34	Sequence 34, Appl
38	196.4	43.9	576	2	US-08-468-570-34	Sequence 34, Appl
39	196.4	43.9	576	2	US-08-290-665A-34	Sequence 34, Appl
40	196.4	43.9	576	3	US-08-466-601A-34	Sequence 34, Appl
41	196.4	43.9	576	6	PCT-US95-10398-34	Sequence 34, Appl
42	184.6	41.3	576	2	US-08-086-428B-33	Sequence 33, Appl
43	184.6	41.3	576	2	US-08-468-570-33	Sequence 33, Appl
44	184.6	41.3	576	2	US-08-290-665A-33	Sequence 33, Appl
45	184.6	41.3	576	3	US-08-466-601A-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-19
Sequence 19, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 26 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET ID NO: INNS:004
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-19

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 2,2e-119;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACGGGGTAATATATGACAGAGGAATCTGCTGTTGCTCTTCTATCTTCTTGTG 60
DB 1 GACGGGGTAATATATGACAGAGGAATCTGCTGTTGCTCTTCTATCTTCTTGTG 60
QY 61 GCTCTTCTGTTGTGTCACCGTCTGCTCTTCTGCGTGAAGAACACCAATACC 120
DB 61 GCTCTTCTGTTGTGTCACCGTCTGCTCTTCTGCGTGAAGAACACCAATACC 120
QY 121 ATGTACATGGAACCAATGATCTGTTCCAAACAAGCATCTGCGCAATGACAGGCGG 180
DB 121 ATGTACATGGAACCAATGATCTGTTCCAAACAAGCATCTGCGCAATGACAGGCGG 180
QY 181 GTGCTCATGTCTCTGATGTGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 GTGCTCATGTCTCTGATGTGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 ATACCGGTCACTCCCAACGTCGTGTGAACCAAGCCGCGCTCACTAGGAGCTTGG 300
DB 241 ATACCGGTCACTCCCAACGTCGTGTGAACCAAGCCGCGCTCACTAGGAGCTTGG 300
QY 301 ACGCACTTGACACCATGTGTATGTGCTTCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 ACGCACTTGACACCATGTGTATGTGCTTCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 420
DB 361 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 420
QY 421 TTTTCCAGATTGCAATTGTTCCATC 447
DB 421 TTTTCCAGATTGCAATTGTTCCATC 447

RESULT 2

US-08-836-075A-17
Sequence 17, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-17

Query Match 67.2%; Score 300.4; DB 3; Length 957;
Best Local Similarity 79.6%; Pred. No. 6.4e-77;
Matches 355; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 1 GACGGGGTAATATATGACAGAGGAATCTGCTGTTGCTCTTCTATCTTCTTGTG 60
DB 478 GACGGGGTAATATATGACAGAGGAATCTGCTGTTGCTCTTCTATCTTCTTGTG 537
QY 61 GCTCTTCTGTTGTGTCACCGTCTGCTCTTCTGCGTGAAGAACACCAATACC 120
DB 538 GCTCTTCTGTTGTGTCACCGTCTGCTCTTCTGCGTGAAGAACACCAATACC 597
QY 121 ATGTACATGGAACCAATGATCTGTTCCAAACAAGCATCTGCGCAATGACAGGCGG 180
DB 121 ATGTACATGGAACCAATGATCTGTTCCAAACAAGCATCTGCGCAATGACAGGCGG 180
QY 181 GTGCTCATGTCTCTGATGTGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 GTGCTCATGTCTCTGATGTGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 ATACCGGTCACTCCCAACGTCGTGTGAACCAAGCCGCGCTCACTAGGAGCTTGG 300
DB 718 ACGCGGTCTGCGCAACGTCGTGTGAACCAAGCCGCGCTCACTAGGAGCTTGG 777
QY 301 ACGCACTTGACACCATGTGTATGTGCTTCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 778 GCTCATGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 837
QY 361 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 420
DB 838 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 897
QY 421 TTTTCCAGATTGCAATTGTTCCAT 446
DB 898 TTTTCCAGATTGCAATTGTTCCAT 923

RESULT 3

US-08-836-075A-75
Sequence 75, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:


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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

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Query Match      64.7%; Score 289.4; DB 3; Length 1195;
Best Local Similarity 77.0%; Pred. No. 1.1e-73;
Matches 344; Conservative 3; Mismatches 100; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGGAATCTGCGTGGTCTCTTCTATCTTCTGTTG 60
DB 716 GACGGGTAATATATGCAACAGGGAATCTGCGTGGTCTCTTCTATCTTCTGTTG 775
QY 61 GCTTTCTGTTGTGTCACCGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 776 GCTTTCTGTTGTGTCACCGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 835
QY 121 ATGTACATGGAACCAATGACTGTCTTCCAAACAGACATCTTGGCAATATGACAGGCG 180
DB 836 ACATACATGGAACCAATGACTGTCTTCCAAACAGACATCTTGGCAATATGACAGGCG 895
QY 181 GTGCTTATGTTCTGTGATGTCTCCGTGTGATGTGACAGGCAATTAAGTCCCGTCTG 240
DB 896 GTGCTTATGTTCTGTGATGTCTCCGTGTGATGTGACAGGCAATTAAGTCCCGTCTG 955
QY 241 ATACCGGTCTCTCCAAACGTGCTGTGACACAGCCGCGCTCTCACTAAGGGGCTTGG 300
DB 956 ATTCAGATTCAGCCCAACGTGCTGTGACACAGCCGCGCTCTCACTAAGGGGCTTGG 1015
QY 301 ACCGACATTCAGACCAATGATGTGCTACGCTCTGTTCTGACTCTTACATGAGGAG 360
DB 1016 TCGGACATTCAGACCAATGATGTGCTACGCTCTGTTCTGACTCTTACATGAGGAG 1075
QY 361 GTGTGTGGCGGATGATGATGCTCTCAAGTTGCTATTTCTTCCGCAACATCAAC 420
DB 1076 GTATGTGGCGGATGATGATGCTCTCAAGTTGCTATTTCTTCCGCAACATCAAC 1135
QY 421 TTTTCCAGATTCATTTCTTCATC 447
DB 1136 TTTTCCAGATTCATTTCTTCATC 1162

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RESULT 4
US-08-836-075A-15
; Sequence 15, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:

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APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-15

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Query Match      64.5%; Score 288.4; DB 3; Length 579;
Best Local Similarity 77.6%; Pred. No. 1.6e-73;
Matches 346; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGGAATCTGCGTGGTCTCTTCTATCTTCTGTTG 60
DB 100 GACGGGTAATATATGCAACAGGGAATCTGCGTGGTCTCTTCTATCTTCTGTTG 159
QY 61 GCTTTCTGTTGTGTCACCGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 160 GCTTTCTGTTGTGTCACCGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 219
QY 121 ATGTACATGGAACCAATGACTGTCTTCCAAACAGACATCTTGGCAATATGACAGGCG 180
DB 220 GCTTATATGCAACCAATGACTGTCTTCCAAACAGACATCTTGGCAATATGACAGGCG 279
QY 181 GTGCTTATGTTCTGTGATGTCTCCGTGTGATGTGACAGGCAATTAAGTCCCGTCTG 240
DB 280 GTGCTTATGTTCTGTGATGTCTCCGTGTGATGTGACAGGCAATTAAGTCCCGTCTG 339
QY 241 ATACCGGTCTCTCCAAACGTGCTGTGACACAGCCGCGCTCTCACTAAGGGGCTTGG 300
DB 340 ATCCGATTCGCGCAACATGAGCGGTGAGCAAACTGTGCTCTCAACAGGAGAGTGG 399
QY 301 ACCGACATTCAGACCAATGATGTGCTACGCTCTGTTCTGACTCTTACATGAGGAG 360
DB 400 GACGATTCAGACCAATGATGTGCTACGCTCTGTTCTGACTCTTACATGAGGAGAT 459

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Qy	Db	Qy	Db
36	460	421	520
GTGTGTGGCGCGGAGTAAAGTGTGTCAAGTTTGATTTGTCTGGCGGCAATCAACAAC	GTGTGCGGCGCGGAGTAAAGTGTGTCAAGCGCTTTTCATCTGTGGCACCAAGCGCCATTAC	TTTTCCAGAGATTGCAATTGTTCCAT	TTCTCCAGAGATTGCAATTGCTTCCAT
420	519	446	545

RESULT 5

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US-09-878-281A-143
; Sequence 143, Application US/09878281A
; Patent No. 6762024
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; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and treatment
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 957
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-143

```

Query Match	63.6%	Score 284.4;	DB 3;	Length 957;
Best Local Similarity	77.4%	Pred. No. 2.7e-72;		
Matches 345; Conservative	0;	Mismatches 101;	Indels 0;	Gaps 0;

QY	1	TACGGGGTAATTAATGCAACAGGGAACTCGCGTGGCTTCTCTCATCTTCTGTG	60
Db	478	GACGGGATAACTATGCAACAGGAACTTGGCCGGTTGCTCTTTCTATCTTTATG	537
QY	61	GCTCTCTGCTCTTGTGTCAACCGTCCCTGTCTCGCCGTGAGGTTAAGAACACAGTAC	120
Db	538	GCCCTGCTATCTTTGTATCACTGTGCGGGTCTCCGGCTTGAGAGTCAAGAACACAGAC	597
QY	121	ATGTACATGGCAACCATGACTGTTCCTCAACACAGCATCATCTGGCAATGACAGGGCGC	180
Db	598	TCTTACATGTGTAACCAATGACTCCGACGAACAGTAGATCGTCTGGAGCTCAAGGATGCT	657
QY	181	GTCCTTCATGTTCCTGGATGTGTCGCCGTGAGATTCAAGGACATTAAGTCCCGTCTGG	240
Db	658	GTTCTTCAAGTCCCGGGTGTGTCTTGTGGAGGAAGGGAACAATATCCCGCTGTGG	717
QY	241	ATACCGGTCACTTCCCAACGTGAGCTGTGAACACAGCCCGCGCCCTCACTAGAGGGCTTGGG	300
Db	718	ATACCGGTTTCCGCCAATATAGCTGTGAGACCAACTGTGTGCGCTTACCAAGGGCCCTGGCG	777
QY	301	AGGCACATTTGACACCATCGATGATGTGTGCTGAGCGCTGTGTCTGCACATCATATCGGGAC	360
Db	778	AGCATATTATTAACCAATTCATTCGATCCGGCTACGTTTGTCTCTGCTCTGTACATTAAGGAGAC	837
QY	361	GTTGTGTGGCGCGGTATGATAGCTGTCAAGGTTGTCAATGTCTGTGCGCGCAACATCAAC	420
Db	838	CTGTGTGGCGCGGTATGTTGGCTTCTCAAGTCTTATCATATCTCGCCCAACATCATTAAG	897
QY	421	TTTTCCAGAGTTGCATTTGTTCCAT	446
Db	898	TTTGTTCAGAGTGTCAACTGTTTCCAT	923

RESULT 6

US-08-836-075A-23
Sequence 23, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

```

1  TITLE OF INVENTION:  AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
2  TITLE OF INVENTION:  AGENTS
3  NUMBER OF SEQUENCES:  207
4  CORRESPONDENCE ADDRESS:
5  ADDRESSEE:  ARNOLD, WHITE & DURKEE
6  STREET:  P.O. BOX 4433
7  CITY:  HOUSTON
8  STATE:  TEXAS
9  COUNTRY:  USA
10 ZIP:  77210-4433
11
12 COMPUTER READABLE FORM:
13 MEDIUM TYPE:  floppy disk
14 COMPUTER:  IBM PC compatible
15 OPERATING SYSTEM:  PC-DOS/MS-DOS
16 SOFTWARE:  Microsoft Word 6.0 / ASCII text output
17
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER:  US/08/836,075A
20 FILING DATE:  21 Apr 1997
21
22 PRIOR APPLICATION DATA:
23 APPLICATION NUMBER:  PCT/EP95/04155
24 FILING DATE:  23 Oct 1995
25
26 PRIOR APPLICATION DATA:
27 APPLICATION NUMBER:  EP 9487016.9
28 FILING DATE:  21 Oct 1994
29
30 PRIOR APPLICATION DATA:
31 APPLICATION NUMBER:  EP 95870076.7
32 FILING DATE:  28 Jun 1995
33
34 ATTORNEY/AGENT INFORMATION:
35 NAME:  KAMMERER, PATRICIA A.
36 REGISTRATION NUMBER:  29,775
37 REFERENCE/DOCKET NUMBER:  INNS:004
38 INFORMATION FOR SEQ. ID NO. 23:
39
40 SEQUENCE CHARACTERISTICS:
41 LENGTH:  447 base pairs
42 TYPE:  nucleic acid
43 STRANDEDNESS:  single
44 TOPOLOGY:  linear
45
46 MOLECULE TYPE:  CDNA
47
48 HYPOTHETICAL:  NO
49
50 ANTI-SENSE:  NO
51
52 US-08-836-075A-23

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Query Match	61.1%	Score 273.2;	DB 3;	Length 447;
Best Local Similarity	75.8%	Pred. No. 3.5e-69;		
Matches 338; Conservative	0;	Mismatches 108;	Indels 0;	Gaps 0;

OY	1	GACGGGGTAAATTATGCAACAGGGAAATCTGCCTGTTGCTCTTATCTATCTTTGTTG	60
Db	1	GACGGGATAAATCTAGCGAAACAGGGAAATCTGCCCGGTGCTCTTTTCTATCTTTGCTG	60
OY	61	GCTCTTCTGTCTTGTCACCGTGTGCTGTCTGTGCGTCAGATTAAAGAACCCGATAC	120
Db	61	GCTTGTCTATCTGTCTCACTGTGTCCGGGTCCGTGTGTCAGATCAAGAACCCAGCCAC	120
OY	121	ATGTACATAGGCAAACCAATGACTGTTTCCAAACAACAGCATCATCTGGCAATGACAGGCGG	180
Db	121	TCTTATATAGTGAAACCAATGATGTCTCAACACAGCAGATTTGTCTGGCAGCTTAAAGATGCT	180
OY	181	GTGCTTCAATGTTCTCTGGAATGTGTCCCGTGTAGTTGCAGGGCAATTAAGTCCCGGTCTGG	240
Db	181	GTGCTTCAACGTCTCCCTGGATGTGTGTTCCATATGTGAGAGCAACMAAATCAAGTCTGGTCTGG	240
OY	241	ATACCGGTCACTCCCAACGTTGGCTGTGAACAAGCCCGGCGCCTCACTAGAGGGCTTGGCG	300
Db	241	ATACCTTGGAACCCCAATGTGGCCGTGAACCAACTGTGGCGCCTCAACAGGGGTTTGGCG	300
OY	301	ACGCACATTTGACACCCATCGTATGTGTGGCTAGCCTGTGTTTGCACCTTCAATTCGGGGAC	360
Db	301	ACGCACATTTGACACCATCGTTGCGTGTGTACCGTCTGCTCAGCTTGTATGTAGGGCGAC	360
OY	361	GTGTGTGGCGCGGTATGATAGTCTGCTCAGGTTGTTCATTTGTCTCCCGCGCAATATCAAC	420
Db	361	TTTCGCGCGCAGTATGTTGTGTCTCTCAATTTTTCATATATCTCCCTCAGACACACATTC	420

Qy 421 TTTCCAGATTGCAATTGTTCCAT 446
 Db 421 TTGCTCCAGATTGCAACTGCTCCAT 446

RESULT 7

US-07-925-695-1
 ; Sequence 1, Application US/07925695
 ; Patent No. 5428145
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; APPLICANT: NAKAMURA, Tetsuo
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 ; TITLE OF INVENTION: DETECTION SYSTEMS
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 ; STREET: 1850 M Street, N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: US
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/925,695
 ; FILING DATE: 19920807
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 287402/91
 ; FILING DATE: 09-AUG-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 360441/91
 ; FILING DATE: 05-DEC-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wellacher, Robert G.
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-48009
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2811
 ; TELEFAX: (202) 659-1462
 ; TELEX: WU1 64470
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 9589 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-07-925-695-1

Query Match 61.0%; Score 272.6; DB 2; Length 9589;
 Best Local Similarity 57.7%; Pred. No. 1.6e-68;
 Matches 258; Conservative 80; Mismatches 109; Indels 0; Gaps 0;

Qy 1 GACGGGGTAAATTATGCAACAGGAGATCTGCTGCTCTTCTCTATCTTCTGTTG 60
 Db 818 GACGGGGUUAUUUGCAACAGGAGATCTGCTGCTCTTCTCTATCTTCTGTTG 877
 Qy 61 GCTCTTCTGCTTGTGTGTCACCGTCTGTCTCTGCGGTGACAGTTAAGAACACCAAGTAC 120
 Db 878 GCCCGGCGUCUCUCCACACACCCCGGUCUCGCTCCGGAAGGAGAACAUAGUAGACC 937
 Qy 121 ATGTAACATGGCAACCAATGATGTTTCAACAAGCAAGCATCATCTGGAAGAGAGGCGCG 180
 Db 938 GGCACAGUGGUGACCAACAGACGACCAUAGUAGCAUUAACUUGGCAACUCCAGGCGUCU 997
 Qy 181 GTGCTCATGTTCTCTGATGTGTCCCGTGTGATGTGACAGGCGCAATTAAGTCCCGGTGCTGG 240

Db 998 GUCCUCCAGCUCGCCGGGUGCGUCCGUGCAGAAAGUGGAAUAUACUUCUGUGCG 1057
 Qy 241 ATTACGGTCACTCCCAACGTCGTGTGAACACAGCCCGCCCTCACTAAGGGCTTGGCG 300
 Db 1058 AUAACGGUCUACCGAAGUGGCGGUGCAGACGCCCGCCGCCUCCACAGCAGGCGUACGG 1117
 Qy 301 ACGCATTGACCACTGATGATGTCGTACGCTGCTGTTCTGACTCTACATCGGGGAC 360
 Db 1118 ACGCACAUAUAGCAUGUGUAGUUCGCCACCGCUCUGCCGCUUUAUGUGGGGAC 1177
 Qy 361 GTGTGCGCGCGGTGATGATGCTGCTCAGTTGTCTATGTTCTGCGCAACATCAAC 420
 Db 1178 CUCUGCGUGGGUGAUGCUGCAGCCAGAUUGUUAUUGUCGACACAGACCAUGG 1237
 Qy 421 TTTCCAGATTGCAATTGTTCCATC 447
 Db 1238 UUGUGCAAGACUGCAAUUGCUCUCCAU 1264

RESULT 8

US-07-925-695-2
 ; Sequence 2, Application US/07925695
 ; Patent No. 5428145
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; APPLICANT: NAKAMURA, Tetsuo
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 ; TITLE OF INVENTION: DETECTION SYSTEMS
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 ; STREET: 1850 M Street, N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: US
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/925,695
 ; FILING DATE: 19920807
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 287402/91
 ; FILING DATE: 09-AUG-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 360441/91
 ; FILING DATE: 05-DEC-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wellacher, Robert G.
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-48009
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2811
 ; TELEFAX: (202) 659-1462
 ; TELEX: WU1 64470
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 9589 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-07-925-695-2

Query Match 61.0%; Score 272.6; DB 2; Length 9589;
 Best Local Similarity 75.6%; Pred. No. 1.6e-68;
 Matches 338; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

Qy 1 GACGGGGTAAATTATGCAACAGGAGATCTGCTGCTCTTCTCTATCTTCTGTTG 60

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Db 818 GACGGGGTATTTTGAACAGGAACTTACCGGTTGCTCTTTGATCTTCTG 877
Qy 61 GCTTTTCTGTTTGTGACCGCTGTCTCTGCGGTTAAGAACACAGTACC 120
Db 878 GCCCTGCTGCTTCATCACCACCCGGTCTCCCTGCGCAAGAAATCATGTAAC 937
Qy 121 ATGTACATGGACCAATGATCTGTCCAAACAGCATCTGTGGCAATGACAGGCGG 180
Db 938 GGTACATGTTGACCAACGATCGACCAATGATGATCTGTGGCAATGACAGGCT 997
Qy 181 GTGCTTATGTTCTGTGATGTGCTCCGTGTGATGACAGGCAATGATCCGGTCTG 240
Db 998 GTCTCCACGTCCTCCGGGTGCGTCCCGTGCAGAAAGTGGGAATACATCTCGGTG 1057
Qy 241 ATACCGGTCACTCCCAAGTGTGTGAACAGCCCGGCGCTCACTAAGGGCTTGG 300
Db 1058 ATACCGGTCTCAAGAAATGTGCGGTGACAGCCCGGCGCTCAAGGCTTACGG 1117
Qy 301 ACGCAATGTGACACATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 1118 ACGCAATGTGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1177
Qy 361 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db 1178 CTGTGCGGTGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1237
Qy 421 TTTTCCAGATGTGCAATGTTTCCATC 447
Db 1238 TTTGTGCAAGATGCAATGTTCTCATC 1264
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RESULT 9

US-07-925-695-6

Sequence 6, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Beveridge, Degrandi, Weillacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 287402/91

FILING DATE: 09-AUG-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 360441/91

FILING DATE: 05-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: Weillacher, Robert G.

REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 06/87-48009

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462

TELEX: WUI 64470

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; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-6
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Query Match 57.7%; Score 257.8; DB 2; Length 9511;
Best Local Similarity 53.0%; Pred. No.3e-64;
Matches 237; Conservative 93; Mismatches 117; Indels 0; Gaps 0;
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Qy 1 GACGGGTAATTAATGCAACAGGAAATCTGCTGTTGCTTTCTATCTTTGTTG 60
Db 819 GACGGGTAATTAATGCAACAGGAAATCTGCTGTTGCTTTCTATCTTTGTTG 878
Qy 61 GCTTTTCTGTTTGTGACCGCTGTCTCTGCGGTTAAGAACACAGTACC 120
Db 879 GCCCTGCTGCTTCATCACCACCCGGTCTCCCTGCGCAAGAAATCATGTAAC 938
Qy 121 ATGTACATGGACCAATGATCTGTCCAAACAGCATCTGTGGCAATGACAGGCGG 180
Db 938 GGTACATGTTGACCAACGATCGACCAATGATGATCTGTGGCAATGACAGGCT 998
Qy 181 GTGCTTATGTTCTGTGATGTGCTCCGTGTGATGACAGGCAATGATCCGGTCTG 240
Db 999 GTCTCCACGTCCTCCGGGTGCGTCCCGTGCAGAAAGTGGGAATACATCTCGGTG 1058
Qy 241 ATACCGGTCACTCCCAAGTGTGTGAACAGCCCGGCGCTCACTAAGGGCTTGG 300
Db 1059 ATACCGGTCTCAAGAAATGTGCGGTGACAGCCCGGCGCTCAAGGCTTACGG 1118
Qy 301 ACGCAATGTGACACATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 1119 ACGCAATGTGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1178
Qy 361 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db 1179 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1238
Qy 421 TTTTCCAGATGTGCAATGTTTCCATC 447
Db 1239 TTTGTGCAAGATGCAATGTTCTCATC 1265
```

RESULT 10

US-07-925-695-7

Sequence 7, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Beveridge, Degrandi, Weillacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Wellacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: WUI 64470
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-7

Query Match 57.7%; Score 257.8; DB 2; Length 9511;
 Best Local Similarity 72.7%; Pred. No. 3e-64;
 Matches 325; Conservative 5; Mismatches 117; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGGAATCTGCTGTTGCTCTTCTATCTCTGTTG 60
 DB 819 GACGGGTAATATATGCAACAGGGAATTTACCGGTGCTCTTCTATCTCTGTTG 878
 QY 61 GCTCTTCTGTTGTTGTCACCGTCCGTCTCTGCGTGAAGTTAAGAACACCACTA 120
 DB 879 GCTCTTCTGTTGTTGTCACCGTCCGTCTCTGCGTGAAGTTAAGAACATATGTTCT 938
 QY 121 ATGTACATGGCAACCAATGATCTGTTCCAAACAGCATCATCTGGCAATGCAAGGCGG 180
 DB 939 AGCTACTACGCGCACTAATGATGCTCAAAACAGCATCATCTGGCAAGTCACTGACGCA 998
 QY 181 GTGCTTATGTTCTGATGATGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 999 GTTCTTCACTCTTCTGATGATGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1058
 QY 241 ATACCGGTCACTCCCAACGTGCTGTGAACCAAGCCGCGCCCTCACTAAGGGGCTTGCG 300
 DB 1059 ATACAAATGACACCCCAAGTGTGCTGTGAACCAAGCCGCGCTCACTGCGTGTGCTGCA 1118
 QY 301 ACGCAATGACACCAATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 1119 ACACACGTGACATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1178
 QY 361 GTGCTGCGCGCGGTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 1179 GTGCTGCGCGCGGTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1238
 QY 421 TTTTCCAGATGCAATTTGTTCCATC 447
 DB 1239 TTTCACCAAGGTGCACTGTTCCATC 1265

RESULT 11
 US-08-836-075A-25
 Sequence 25, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:
 APPLICANT: MAERTENS, GEBERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DUNKER
 STREET: P.O. BOX 4433
 CITY: HOUSTON

STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 25:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 356 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEetical: NO
 ANTI-SENSE: NO
 US-08-836-075A-25

Query Match 50.6%; Score 226.4; DB 3; Length 356;
 Best Local Similarity 77.2%; Pred. No. 1.1e-55;
 Matches 275; Conservative 0; Mismatches 81; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGGAATCTGCTGTTGCTCTTCTATCTCTGTTG 60
 DB 1 GACGGGTAATATATGCAACAGGGAACCTGCTGTTGCTCTTCTATCTCTTACTG 60
 QY 61 GCTCTTCTGTTGTTGTCACCGTCCGTCTCTGCGTGAAGTTAAGAACACCACTA 120
 DB 61 GCCCTGTTCTTGTGATGATGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 QY 121 ATGTACATGGCAACCAATGATCTGTTCCAAACAGCATCATCTGGCAATGCAAGGCGCG 180
 DB 121 TCTTACATGCTGACCAATGATGCTGGAACAGCATGCTTGGCAGCTCGAGAGGCC 180
 QY 181 GTGCTTATGTTCTGATGATGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 181 GTCTTACATGCTGCTGATGATGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 QY 241 ATACCGGTCACTCCCAACGTGCTGTGAACCAAGCCGCGCCCTCACTAAGGGGCTTGCG 300
 DB 241 ATACCGGTCACTCCCAACGTGCTGTGAACCAAGCCGCGCTTACCAAGGGGCTTGCG 300
 QY 301 ACGCAATGACACCAATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 356
 DB 301 ACACATATGACATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 356

RESULT 12
 US-08-086-428B-27
 Sequence 27, Application US/08086428B
 Patent No. 5514539
 GENERAL INFORMATION:
 APPLICANT: BURK, J., MILLER, R. H. AND
 APPLICANT: PORCELL, R. H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE

```
? TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
? TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
? TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
? NUMBER OF SEQUENCES: 159
? CORRESPONDENCE ADDRESSES:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/086,428B
? FILING DATE: 29-JUN-1993
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4070
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 27:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORIGINAL SOURCE:
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: T4
? US-08-086-428B-27

Query Match          49.6%; Score 221.6; DB 2; Length 576;
Best Local Similarity 77.3%; Pred. No. 3.1e-54;
Matches 269; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 100 CAGGTTAAGAACACACAGTACATGATGACGCAACCAATGACTGTTCCAGACAGCATC 159
DB 4 CAATGAAGAACAACACACTAACAGCTACATGAGCAACGACTGTTCTAATGACAGCATC 63

QY 160 ATCTGGCAATGCAAGGGCGCGGTGCTTCATGTTCTTGATGTGTCCGTTGAGTTGCAG 219
DB 64 ACTTGGCAGCTTCAGGGCGCGGTCTCTCCACGTCGCCGGGTGTGTCCGTGAGAAACG 123

QY 220 GGCATAATAGTCCCGGTGCTGATACCGGTCACTCCCAACGTGGCTGTGAACCAAGCCGCGC 279
DB 124 GGAATATATCTCGGTGCTGATACCGGTTCACCAACGTGGCGGTGCGGACGCCGCGC 183

QY 280 GCCCTCACTAGAGGGGCTTGGAGCGACGACATTGACACCATCGATGATGATGCTACGCTGTGT 339
DB 184 GCCCTCAGCAGAGGGGCTTGGAGCGACGACATTGACATGATGATGATGCTACGCTGTGTGC 243

QY 340 TCTGCACTTACATCGGAGACGTGTGTGGCGCGGTGATGATGATGCTGCTCAGGTGTTCATT 399
DB 244 TCTGCTCTTTACGTGGGAGACCTCTGCGGGGCGGTGATGCTGCGAGCCAGATGTTTCATC 303

QY 400 GTCTCGCCGCAACATCAACAATTTCCTCCAGATTTGCAATTGTTTCATC 447
DB 304 GTCTCGCCGCAACATCACTGTTGTGTGCAAGATGCAATTGCTTATC 351

RESULT 13
US-08-468-570-27
; Sequence 27, Application US/08468570
; Patent No. 5871962
; GENERAL INFORMATION:
```

```
? APPLICANT: BORK, J., MILLER, R.H. AND
? APPLICANT: PURCELL, R.H.
? TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
? TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
? TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
? TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
? NUMBER OF SEQUENCES: 159
? CORRESPONDENCE ADDRESSES:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/468,570
? FILING DATE: 6-JUN-1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/086,428
? FILING DATE: 29-JUN-1993
? CLASSIFICATION: 424
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4070US1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 27:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORIGINAL SOURCE:
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: T4
? US-08-468-570-27

Query Match          49.6%; Score 221.6; DB 2; Length 576;
Best Local Similarity 77.3%; Pred. No. 3.1e-54;
Matches 269; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 100 CAGGTTAAGAACACACAGTACATGATGACGCAACCAATGACTGTTCCAGACAGCATC 159
DB 4 CAATGAAGAACAACACACTAACAGCTACATGATGAGCAACGACTGTTCTAATGACAGCATC 63

QY 160 ATCTGGCAATGCAAGGGCGCGGTGCTTCATGTTCTTGATGTGTCCGTTGAGTTGCAG 219
DB 64 ACTTGGCAGCTTCAGGGCGCGGTCTCTCCACGTCGCCGGGTGTGTCCGTGAGAAACG 123

QY 220 GGCATAATAGTCCCGGTGCTGATACCGGTCACTCCCAACGTGGCTGTGAACCAAGCCGCGC 279
DB 124 GGAATATATCTCGGTGCTGATACCGGTTCACCAACGTGGCGGTGCGGACGCCGCGC 183

QY 280 GCCCTCACTAGAGGGGCTTGGAGCGACGACATTGACACCATCGATGATGATGCTACGCTGTGT 339
DB 184 GCCCTCAGCAGAGGGGCTTGGAGCGACGACATTGACATGATGATGATGCTACGCTGTGTGC 243

QY 340 TCTGCACTTACATCGGAGACGTGTGTGGCGCGGTGATGATGATGCTGCTCAGGTGTTCATT 399
DB 244 TCTGCTCTTTACGTGGGAGACCTCTGCGGGGCGGTGATGCTGCGAGCCAGATGTTTCATC 303

QY 400 GTCTCGCCGCAACATCAACAATTTCCTCCAGATTTGCAATTGTTTCATC 447
DB 304 GTCTCGCCGCAACATCACTGTTGTGTGCAAGATGCAATTGCTTATC 351
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Accession	Sequence	Position
Db	124 GGAATAATCATCTCGGTGCTGGAAATACCGGTTTACCAAACGTGGCCGTGGCGAGCCCGGC	183
Qy	280 GCCCTCATTAAGGGGCTTGGCGGACGCAATTGACACCATCGTGAATGGTACGCTCTGT	339
Db	184 GCCCTCACGCAAGGGCTTGGCGGACGCAATTGACATGTTGTGAATGTCGCCGACGCTCTGC	243
Qy	340 TTTCGACTTAACTCGGGGACGTGTGTGGCGCGGTGATGATGCTCAGGTTTGCAAT	399
Db	244 TCTGCTCTTTAAGTGGGGGACCTCTCGCGGGGGGTATGCTCCAGCCGACGATGTTTCATC	303
Qy	400 GTTCGGCGCAACATCAACAATTTTCCACGATTTGCAATGTTCCATC	447
Db	304 GTCTGCGCGCAACATCACTAGTGTATTGCGAAGACTGCAATTTGCTCTATC	351

Search completed: January 11, 2006, 04:37:48
Job time : 112.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 77.0414 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-21
310
Sequence: 1 atgagcacaaatcctaacc.....ctgtccctcgagagctctc 310

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/1 COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H COMB.seq: *
6: /cgn2_6/ptodata/1/ina/PTUS COMB.seq: *
7: /cgn2_6/ptodata/1/ina/PP COMB.seq: *
8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	310	100.0	310	3	US-08-836-075A-21
2	282.8	91.2	573	2	US-08-290-665A-134
3	282.8	91.2	573	6	PCT-US95-10398-134
4	282.8	91.2	957	3	US-09-878-281A-143
5	278	89.7	510	3	US-08-441-971-66
6	278	89.7	510	3	US-08-221-653-66
7	278	89.7	510	3	US-08-442-144A-66
8	278	89.7	957	3	US-08-441-970-66
9	278	89.7	957	3	US-08-836-075A-17
10	274.4	88.5	310	3	US-08-836-075A-13
11	271.6	87.6	549	3	US-08-441-971-65
12	271.6	87.6	549	3	US-08-221-653-65
13	271.6	87.6	549	3	US-08-442-144A-65
14	271.6	87.6	549	3	US-08-441-970-65
15	271.6	87.6	573	2	US-08-290-665A-125
16	271.6	87.6	573	2	US-08-290-665A-126
17	271.6	87.6	573	6	PCT-US95-10398-126
18	271.6	87.6	573	6	PCT-US95-10398-125
19	271.6	87.6	1195	3	US-08-836-075A-75
20	270	87.1	573	2	US-08-290-665A-128
21	270	87.1	573	6	PCT-US95-10398-128
22	268.4	86.6	9589	2	US-07-925-695-1
23	268.4	86.6	9589	2	US-07-925-695-2
24	262	84.5	573	2	US-08-290-665A-127

25	262	84.5	573	2	US-08-290-665A-132	Sequence 132, App
26	262	84.5	573	2	US-08-290-665A-133	Sequence 133, App
27	262	84.5	573	6	PCT-US95-10398-137	Sequence 127, App
28	262	84.5	573	6	PCT-US95-10398-132	Sequence 132, App
29	262	84.5	573	6	PCT-US95-10398-133	Sequence 133, App
30	258.8	83.5	369	2	US-08-081-072-14	Sequence 14, App
31	258.8	83.5	369	2	US-08-449-093A-14	Sequence 14, App
32	258.8	83.5	573	2	US-08-290-665A-131	Sequence 131, App
33	258.8	83.5	573	6	PCT-US95-10398-131	Sequence 131, App
34	257.2	83.0	573	2	US-08-290-665A-129	Sequence 129, App
35	257.2	83.0	573	2	US-08-290-665A-130	Sequence 130, App
36	257.2	83.0	573	6	PCT-US95-10398-130	Sequence 129, App
37	257.2	83.0	573	6	PCT-US95-10398-130	Sequence 130, App
38	253.6	81.8	9511	2	US-07-925-695-6	Sequence 6, App
39	253.6	81.8	9511	2	US-07-925-695-7	Sequence 7, App
40	239.6	77.3	573	3	US-09-194-949A-5	Sequence 5, App
41	236.4	76.3	669	2	US-08-143-579A-3	Sequence 3, App
42	236.4	76.3	669	2	US-08-143-578A-3	Sequence 3, App
43	236.4	76.3	669	3	US-08-454-928-7	Sequence 7, App
44	234.8	75.7	462	3	US-08-854-531-1	Sequence 1, App
45	234.8	75.7	462	6	PCT-US95-1355A-1	Sequence 1, App

ALIGNMENTS

RESULT 1
US-08-836-075A-21
; Sequence 21, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 310 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-21

Query Match 100.0%; Score 310; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 7, 9e-90;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACATAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACATAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGCGGTGCGGCAAGATCGTTGGCGAGTATACCTGTGCGCGCAG 120
DB 61 GACGTTAAGTTCCCGGCGGTGCGGCAAGATCGTTGGCGAGTATACCTGTGCGCGCAG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGGCGGCAAGAAACCTCCGACCGTCCGACGCGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGGCGGCAAGAAACCTCCGACCGTCCGACGCGTGG 180
QY 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGGCAAACTCTGGGAGCGTCCAGGA 240
DB 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGGCAAACTCTGGGAGCGTCCAGGA 240
QY 241 TACCCCTGGCCCCCTGTATGGGAACGAGGGCCTTGGTGGGAGATGGCTTGTCCCT 300
DB 241 TACCCCTGGCCCCCTGTATGGGAACGAGGGCCTTGGTGGGAGATGGCTTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 2

US-08-290-665A-134
Sequence 134, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R. H. AND

APPLICANT: PURCELL, R. H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESSES:

ADDRESSEE: MORGAN & PINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 134:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homoesapiens
INDIVIDUAL ISOLATE: S83
US-08-290-665A-134

Query Match 91.2%; Score 282.8; DB 2; Length 573;
Best Local Similarity 94.5%; Pred. No. 5, 8e-81;
Matches 293; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACATAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACATAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGCGGTGCGGCAAGATCGTTGGCGAGTATACCTGTGCGCGCAG 120
DB 61 GACGTTAAGTTCCCGGCGGTGCGGCAAGATCGTTGGCGAGTATACCTGTGCGCGCAG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGGCGGCAAGAAACCTCCGACCGTCCGACGCGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGGCGGCAAGAAACCTCCGACCGTCCGACGCGTGG 180
QY 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGGCAAACTCTGGGAGCGTCCAGGA 240
DB 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGGCAAACTCTGGGAGCGTCCAGGA 240
QY 241 TACCCCTGGCCCCCTGTATGGGAACGAGGGCCTTGGTGGGAGATGGCTTGTCCCT 300
DB 241 TACCCCTGGCCCCCTGTATGGGAACGAGGGCCTTGGTGGGAGATGGCTTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 3

PCT-US95-10398-134
Sequence 134, Application PC/TUS9510398

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R. H. AND

APPLICANT: PURCELL, R. H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESSES:

ADDRESSEE: MORGAN & PINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10398

FILING DATE: 15-AUG-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/086,428

FILING DATE: 29 JUNE 1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/290/665

FILING DATE: 15 AUGUST 1994

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORGANISM: hominids
INDIVIDUAL ISOLATE: S83
PCT-US95-10398-134

Query Match 91.2%; Score 282.8; DB 6; Length 573;
Best Local Similarity 94.5%; Pred. No. 5.8e-81;
Matches 293; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTCTAACTCAAGAAACCAAAAGAACTAACCGCGCGCCACAG 60
DB 1 ATGAGCAAAATCTCTAACTCAAGAAACCAAAAGAACTAACCGCGCGCCACAG 60
QY 61 GAGCTTAAGTTCCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
DB 61 GAGCTTAAGTTCCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
QY 121 GCGCCCGGTTGGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
DB 121 GCGCCGAGATGTTGGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
QY 181 AGCGCGCAGCG 240
DB 181 AGCGCGCAGCG 240
QY 241 TACCTTGGCG 300
DB 241 TACCTTGGCG 300
QY 301 CGAGGCTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 4
US-09-878-281A-143
Sequence 143, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878, 281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: Patent version 3.1
SEQ ID NO 143
LENGTH: 957
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-143

Query Match 91.2%; Score 282.8; DB 3; Length 957;
Best Local Similarity 94.5%; Pred. No. 7.3e-81;
Matches 293; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTCTAACTCAAGAAACCAAAAGAACTAACCGCGCGCCACAG 60
DB 1 ATGAGCAAAATCTCTAACTCAAGAAACCAAAAGAACTAACCGCGCGCCACAG 60
QY 61 GAGCTTAAGTTCCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120

DB 61 GAGCTTAAGTTCCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
QY 121 GCGCCCGGTTGGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
DB 121 GCGCCCGGTTGGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
QY 181 AGCGCGCAGCG 240
DB 181 AGCGCGCAGCG 240
QY 241 TACCTTGGCG 300
DB 241 TACCTTGGCG 300
QY 301 CGAGGCTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 5
US-08-441-971-66
Sequence 66, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-Am Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441, 971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221, 653
FILING DATE:
APPLICATION NUMBER: US/07/881, 528
FILING DATE:
APPLICATION NUMBER: 07/697, 326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 510 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: arg6
US-08-441-971-66

Query Match 89.7%; Score 278; DB 3; Length 510;
Best Local Similarity 93.5%; Pred. No. 1.9e-79;

SEQUENCE CHARACTERISTICS:
LENGTH: 510 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: arg6
US-08-442-144A-66

Query Match 89.7%; Score 278; DB 3; Length 510;
Best Local Similarity 93.5%; Pred. No. 1.9e-79;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACCTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACCTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCTGAGCGGCGGTGCGCAGATCGTTGGCGAGTATCTTTGGCGCGAG 120
DB 61 GACGTTAAGTTCCTGAGCGGCGGTGCGCAGATCGTTGGCGAGTATCTTTGGCGCGAG 120
QY 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAACCTTCCGAAAGCTCCAGCGAGG 180
DB 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAACCTTCCGAAAGCTCCAGCGAGG 180
QY 181 AGGGCGCAGCCATCCCTTAAGATCGGGCGCTCCAGTGGCAAAATCTTGGGAGCGTCCAGGA 240
DB 181 AGGGCGCAGCCATCCCTTAAGATCGGGCGCTCCAGTGGCAAAATCTTGGGAGCGTCCAGGA 240
QY 241 TACCTTTGGCCCCCTGATGGAACGAGGCGCTTGTGGGAGAGATGGCTTTGTCCCT 300
DB 241 TACCTTTGGCCCCCTGATGGAATGAGGGTCTGGGCTGGGAGAGATGGCTTTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 8
US-08-441-970-66
Sequence 66, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKTEL
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 510 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: arg6
US-08-441-970-66

Query Match 89.7%; Score 278; DB 3; Length 510;
Best Local Similarity 93.5%; Pred. No. 1.9e-79;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACCTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACCTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCTGAGCGGCGGTGCGCAGATCGTTGGCGAGTATCTTTGGCGCGAG 120
DB 61 GACGTTAAGTTCCTGAGCGGCGGTGCGCAGATCGTTGGCGAGTATCTTTGGCGCGAG 120
QY 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAACCTTCCGAAAGCTCCAGCGAGG 180
DB 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAACCTTCCGAAAGCTCCAGCGAGG 180
QY 181 AGGGCGCAGCCATCCCTTAAGATCGGGCGCTCCAGTGGCAAAATCTTGGGAGCGTCCAGGA 240
DB 181 AGGGCGCAGCCATCCCTTAAGATCGGGCGCTCCAGTGGCAAAATCTTGGGAGCGTCCAGGA 240
QY 241 TACCTTTGGCCCCCTGATGGAACGAGGCGCTTGTGGGAGAGATGGCTTTGTCCCT 300
DB 241 TACCTTTGGCCCCCTGATGGAATGAGGGTCTGGGCTGGGAGAGATGGCTTTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 9
US-08-836-075A-17
Sequence 17, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995


```

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-441-971-65

Query Match      87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
DB 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCCAGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCCAGTGG 180
QY 181 AGGCGCCAGCCATCCTTAAAGATCGGCGTCCACTGAGCAAAATCTGAGGAGCGTCCAGGA 240
DB 181 AGGCGTCAAGCCATCCTTAAAGATCGTCCACTGAGCAAAATCTGAGGAGCGTCCAGGA 240
QY 241 TACCTTGGCCCTGTATGGAACGAGGCGCTTGTGGCGAGATGCTTGTGCTTCCCT 300
DB 241 TATCTTGGCCCTGTATGGAATGAGGGTCTCGGCTGGGAGGGGTGCTCTGTGCTCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGTGGCTCTC 310

RESULT 12
US-08-221-653-65
; Sequence 65, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:

```

```

ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-221-653-65

Query Match      87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
DB 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCCAGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCCAGTGG 180
QY 181 AGGCGCCAGCCATCCTTAAAGATCGGCGTCCACTGAGCAAAATCTGAGGAGCGTCCAGGA 240
DB 181 AGGCGTCAAGCCATCCTTAAAGATCGTCCACTGAGCAAAATCTGAGGAGCGTCCAGGA 240
QY 241 TACCTTGGCCCTGTATGGAACGAGGCGCTTGTGGCGAGATGCTTGTGCTTCCCT 300
DB 241 TATCTTGGCCCTGTATGGAATGAGGGTCTCGGCTGGGAGGGGTGCTCTGTGCTCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGTGGCTCTC 310

RESULT 13
US-08-442-144A-65
; Sequence 65, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:

```

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-442-144A-65

Query Match 87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1 ATGAGCAAAATCTTAACCTCAAGAAAACCAAAACACTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAACCAAAACACTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCTCCGGGCGGTGGCCAGATCGTTGGCGAGTATCTTTGTCGGGCGAG 120
DB 61 GACGTTAAGTTCCTCCGGGCGGTGGCCAGATCGTTGGCGAGTATCTTTGTCGGGCGAG 120
QY 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAACGGTCCAGCCAGCGTGG 180
DB 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAACGGTCCAGCCAGCGTGG 180
QY 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAACGGTCCAGCCAGCGTGG 180
DB 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAACGGTCCAGCCAGCGTGG 180
QY 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGGCAAACTCTGGGGAGAGTCCAGA 240
DB 181 AGGCGCCAGCCCATCTTAAGATCGTGCACCGCTGGCAAGTCTCTGGGGAGAGGCGAGA 240
QY 241 TACCTTGGGCGGCTGATGGGAACGAGGCGCTTGGTTGGCGAGATGGCTCTTGGCCCT 300
DB 241 TATCTTGGGCGGCTGATGGGAATAGGGGTCTGGGCTGGGAGGGGTGGCTCTGTCCTCC 300
QY 301 CGAGGCTCTC 310
DB 301 COTGGCTCTC 310

RESULT 14
US-08-441-970-65
Sequence 65, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKTEL
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-441-970-65

Query Match 87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1 ATGAGCAAAATCTTAACCTCAAGAAAACCAAAACACTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAACCAAAACACTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCTCCGGGCGGTGGCCAGATCGTTGGCGAGTATCTTTGTCGGGCGAG 120
DB 61 GACGTTAAGTTCCTCCGGGCGGTGGCCAGATCGTTGGCGAGTATCTTTGTCGGGCGAG 120
QY 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAAAGGTCCAGCCAGCGTGG 180
DB 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAAAGGTCCAGCCAGCGTGG 180
QY 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAAAGGTCCAGCCAGCGTGG 180
DB 121 GCGCCCGGTTGGGTGTGGCGCGAGAGAAAACCTTCGAAAGGTCCAGCCAGCGTGG 180
QY 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGGCAAACTCTGGGGAGAGTCCAGA 240
DB 181 AGGCGCCAGCCCATCTTAAGATCGTGCACCGCTGGCAAGTCTCTGGGGAGAGGCGAGA 240
QY 241 TACCTTGGGCGGCTGATGGGAACGAGGCGCTTGGTTGGCGAGATGGCTCTTGTCCCT 300
DB 241 TATCTTGGGCGGCTGATGGGAATAGGGGTCTGGGCTGGGAGGGGTGGCTCTGTCCTCC 300

Db 241 TATCCTTGCCCCGTATAGGATGAGGCTCGGCTGGCGAGGCTCTCTCCCC 300
 QY 301 CGAGCTCTC 310
 Db 301 CGGCTCTC 310

RESULT 15
 US-08-290-665A-125
 ; Sequence 125, Application US/08290665A
 ; Patent No. 5682852

; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 125:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: T4
 ; US-08-290-665A-125

Query Match 87.6%; Score 271.6; DB 2; Length 573;
 Best Local Similarity 92.3%; Pred. No. 2.3e-77;
 Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATGAGCACAATCTTAACCTCAAGAAAAACCAAGAAACACTTAACCGCGCCACAG 60
 Db 1 ATGAGCACAATCTTAACCTCAAGAAAAACCAAGAAACACTTAACCGCGCCACAG 60
 QY 61 GACGTTAAGTCCCGCGCGGTGGCCAGATCGTTGGCGGAGTATCTTGTGCGCGCAAG 120
 Db 61 GACGTTAAGTCCCGCGCGGTGGCCAGATCGTTGGCGGAGTATCTTGTGCGCGCAAG 120
 QY 121 GGGCCCGGTTGGGTGTCGCGCGAGCAGCAAGAACTTCGGAAGGTCGCCAGCCAGGTGG 180
 Db 121 GGGCCCGGTTGGGTGTCGCGCGAGCAGCAAGAACTTCGGAAGGTCGCCAGCCAGGTGG 180
 QY 181 AGGCGCCAGCCATCCCTAAAGATCGGCGCTCACTGGCAATCTGGGGAAGTCCAGGA 240
 Db 181 AGGCGCCAGCCATCCCTAAAGATCGGCGCTCACTGGCAATCTGGGGAAGTCCAGGA 240

Db 181 AGGCGCCAGCCATCCCAAGATCGGCGCTCCACTGCAAGTCTGGGAAAAACAGGA 240
 QY 241 TACCTTGCCCTGTATGGGAACGAGGGCTTGTGGGAGGATGCTCTTGTCCCT 300
 Db 241 TACCTTGCCCTGTATGGGAACGAGGGCTTGTGGGAGGATGCTCTTGTCCCT 300
 QY 301 CGAGCTCTC 310
 Db 301 CGAGCTTCCC 310

Search completed: January 11, 2006, 04:37:49
 Job time : 78.0414 secs

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This Page Blank (uspto)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-23
Perfect score: 447
Sequence: 1 gacgggataactacgcgaac.....aggatgcacactgcgcgata 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H COMB.seq: *
6: /cgn2_6/ptodata/1/ina/PCrus COMB.seq: *
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8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	447	100.0	447	3	US-08-836-075A-23 Sequence 23, App1
2	304.6	68.1	957	3	US-09-878-281A-13 Sequence 143, App1
3	273.2	61.1	447	3	US-08-836-075A-19 Sequence 19, App1
4	269.4	60.3	957	3	US-08-836-075A-17 Sequence 17, App1
5	255.8	57.2	579	3	US-08-836-075A-15 Sequence 15, App1
6	251.2	56.2	1195	3	US-08-836-075A-75 Sequence 75, App1
7	250.8	56.1	9589	2	US-07-925-695-1 Sequence 1, App1
8	250.8	56.1	9589	2	US-07-925-695-2 Sequence 2, App1
9	248.8	55.7	356	3	US-08-836-075A-25 Sequence 25, App1
10	242.8	54.3	9511	2	US-07-925-695-6 Sequence 6, App1
11	242.8	54.3	9511	2	US-07-925-695-7 Sequence 7, App1
12	204	45.6	333	2	US-08-634-797-25 Sequence 25, App1
13	194.8	43.6	576	2	US-08-086-428B-29 Sequence 29, App1
14	194.8	43.6	576	2	US-08-468-570-29 Sequence 29, App1
15	194.8	43.6	576	2	US-08-290-665A-29 Sequence 29, App1
16	194.8	43.6	576	3	US-08-466-601A-29 Sequence 29, App1
17	194.8	43.6	576	6	PCT-US95-10398-29 Sequence 29, App1
18	192.6	43.1	576	2	US-08-086-428B-34 Sequence 34, App1
19	192.6	43.1	576	2	US-08-468-570-34 Sequence 34, App1
20	192.6	43.1	576	2	US-08-290-665A-34 Sequence 34, App1
21	192.6	43.1	576	3	US-08-466-601A-34 Sequence 34, App1
22	192.6	43.1	576	6	PCT-US95-10398-34 Sequence 34, App1
23	187.4	41.9	333	2	US-08-634-797-26 Sequence 26, App1
24	187	41.8	576	2	US-08-086-428B-27 Sequence 27, App1

25	187	41.8	576	2	US-08-468-570-27	Sequence 27, App1
26	187	41.8	576	2	US-08-290-665A-27	Sequence 27, App1
27	187	41.8	576	3	US-08-466-601A-27	Sequence 27, App1
28	187	41.8	576	6	PCT-US95-10398-27	Sequence 27, App1
29	186.4	41.7	333	2	US-08-634-797-21	Sequence 21, App1
30	186	41.6	576	2	US-08-086-428B-28	Sequence 28, App1
31	186	41.6	576	2	US-08-468-570-28	Sequence 28, App1
32	186	41.6	576	2	US-08-290-665A-28	Sequence 28, App1
33	186	41.6	576	3	US-08-466-601A-28	Sequence 28, App1
34	186	41.6	576	6	PCT-US95-10398-28	Sequence 28, App1
35	185.4	41.5	576	2	US-08-086-428B-26	Sequence 26, App1
36	185.4	41.5	576	2	US-08-468-570-26	Sequence 26, App1
37	185.4	41.5	576	2	US-08-290-665A-26	Sequence 26, App1
38	185.4	41.5	576	3	US-08-466-601A-26	Sequence 26, App1
39	185.4	41.5	576	6	PCT-US95-10398-26	Sequence 26, App1
40	185.2	41.4	574	3	US-09-878-281A-175	Sequence 120, App
41	185.2	41.4	579	3	US-08-878-281A-175	Sequence 175, App
42	179.4	40.1	333	2	US-08-634-797-23	Sequence 23, App1
43	178.8	40.0	576	2	US-08-086-428B-30	Sequence 30, App1
44	178.8	40.0	576	2	US-08-468-570-30	Sequence 30, App1
45	178.8	40.0	576	2	US-08-290-665A-30	Sequence 30, App1

ALIGNMENTS

RESULT 1
US-08-836-075A-23
; Sequence 23, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 23:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-23

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 2,2e-141;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTGCTG 60
DB 1 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTGCTG 60
QY 61 GCCTTGCTATCT 120
DB 61 GCCTTGCTATCT 120
QY 121 TCTTATATGAGCAACAAATGATGCTCAAGACAGCAAGTGTCTGCGAGCTTAAGGATGCT 180
DB 121 TCTTATATGAGCAACAAATGATGCTCAAGACAGCAAGTGTCTGCGAGCTTAAGGATGCT 180
QY 181 GTGCTTCACTGCTCCCTGATGTGTTCATGTGAGAGGACCAAAATCAGTCTCGCTGCTG 240
DB 181 GTGCTTCACTGCTCCCTGATGTGTTCATGTGAGAGGACCAAAATCAGTCTCGCTGCTG 240
QY 241 ATACCTGTGACACCCCAATGTGTGCGGTGAGCCACCTGCGGCTTACCAGGGGTTTGGG 300
DB 241 ATACCTGTGACACCCCAATGTGTGCGGTGAGCCACCTGCGGCTTACCAGGGGTTTGGG 300
QY 301 ACGGACATTTGACACCATGCTGCGTCTGACGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 ACGGACATTTGACACCATGCTGCGTCTGACGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 TTCTGCGGCGGAGATGATGTGTCTCTCAATTTTTCATGATCTCCCTCAGACACCATC 420
DB 361 TTCTGCGGCGGAGATGATGTGTCTCTCAATTTTTCATGATCTCCCTCAGACACCATC 420
QY 421 TTGCTCCAGATTGCACTGCTCGATA 447
DB 421 TTGCTCCAGATTGCACTGCTCGATA 447

RESULT 2
US-09-878-281A-143
; Sequence 143; Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 957
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-143

Query Match 68.1%; Score 304.6; DB 3; Length 957;
Best Local Similarity 80.1%; Pred. No. 7.4e-93;
Matches 358; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 1 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTGCTG 60
DB 478 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTTATG 537
QY 61 GCCTTGCTATCT 120
DB 538 GCCTTGCTATCT 597
QY 121 TCTTATATGAGCAACAAATGATGCTCAAGACAGCAAGTGTCTGCGAGCTTAAGGATGCT 180
DB 121 TCTTATATGAGCAACAAATGATGCTCAAGACAGCAAGTGTCTGCGAGCTTAAGGATGCT 180

DB 598 TCTTACATGTAACCAATGATGCTGCCAAGACAGTAGATGCTTGAGCACTCAGGGATGCT 657
QY 181 GTGCTTCACTGCTCCCTGATGTGTTCATGTGAGAGGACACCAAAATCAGTCTCGCTGCTG 240
DB 658 GTTCTTCACTGCTCCCTGATGTGTTCATGTGAGAGGACACCAAAATCAGTCTCGCTGCTG 717
QY 241 ATACCTGTGACACCCCAATGTGTGCGGTGAGCCAACTGCGCGCTTACACAGGGGTTTGGCG 300
DB 718 ATACCGGTTTCCGCAATATAGCTGTGAGCAACCTGTGTGCTTACCAAGGGGCTGCGG 777
QY 301 ACGGACATTTGACACCATGCTGCGTCTGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 778 ACGGATTTGATACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 837
QY 361 TTCTGCGGCGGAGATGATGTGTCTCTCAATTTTTCATGATCTCCCTCAGACACCATC 420
DB 838 CTGTGTGCGGCGGATGATGTGTCTCTCAAGTCTTATATCTCTGCGCCAGCATATAG 897
QY 421 TTGCTCCAGATTGCACTGCTCGATA 447
DB 898 TTGCTCCAGATTGCACTGCTCGATA 924

RESULT 3
US-08-836-075A-19
; Sequence 19; Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULAR TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-19

Query Match	61.1%;	Score 273.2;	DB 3;	Length 447;
Best Local Similarity	75.8%;	Pred. No. 2.2e-82;		
Matches 338; Conservative	0;	Mismatches 108;	Indels 0;	Gaps 0;

Qy		GAGGGGATAAACAGCAACGAGGAATCTGCCGGTGTCTCTTTTCTCATCTCTGTG	60
Db		1 GACGGGGTAAATTATATCAACAGGGAATCTGCTGTGTCTCTTTCTCATCTCTGTG	60
Qy		61 GCCTTGCTATCTCTGTCACTGTGCGCGGTCGCGTGTGCAGTCAAGAACACCGAC	120
Db		61 GCTCTTCTGTCTTGTGTCAACCGTGCTGTCTGTCCGCTGACAGTTAAGAACACCA	120
Qy		121 TCTTATATGGTATGCAATGATATTGTCTCAACAGCAGCATTTGTCTGGACGTTA	180
Db		121 ATGTACATGGCAACCAATACATCTTTCCAAACAACACATCATCTGGCAAAATGCA	180
Qy		181 GTGCTTCAGTCCCTCGATGTGTCCATGTGAGAGGACCAAAAATCAGTCTCGTGTG	240
Db		181 GTGCTTCATGTTCTGTGATGTGTCCCGTGTAGTTGACAGGGCAATAGTCCCGTGTG	240
Qy		241 ATATCTGTGTGACCCCAATGTGGCGGTGAGCCCACTGCGCGGCTCACCAAGGG	300
Db		241 ATATCGGTCACTCCCAACGTGTGTGTGAACACGCGCGCGCTCATAGGGGCTT	300
Qy		301 ACCCAATTGACCAACATCGTGTGCGTGTGCTGACCGTCTCAGCTTTGTATGTGG	360
Db		301 ACCCAATTGACCAACATCGTGTGATGTGTGCGTGTGCTGTCTGTCTGCACTT	360
Qy		361 TTCTGCGCGCGAGTGAATGTGTGCTTCTCAATTTTTCATGATCTCCCTCAGAC	420
Db		361 GTGTGTGGCGCGGTATGATATGACTCTCAGGTTCATTTGTCTGCGCAACATCA	420
Qy		421 TTGTGCAAGATTGCAATGCTCGAAT	446
Db		421 TTTTCCAGGATTTGCAATTTGTCCAT	446

RESULT 4

US-08-836-075A17
: Sequence 17, Application US/08836075A
: Patent No. 6180768
: GENERAL INFORMATION:
: APPLICANT: MAERTENS, GEBERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: TITLE OF INVENTION: AGENTS
: NUMBER OF SEQUENCES: 207
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
: CITY: HOUSTON
: STATE: TEXAS
: COUNTRY: USA
: ZIP: 77210-4433
: COMPUTER READABLE FORM:
: MEDIUM TYPE: FLOPPY disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Microsoft Word 6.0 / ASCII text output
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/836,075A
: FILING DATE: 21 Apr 1997
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/EP95/04155
: FILING DATE: 23 Oct 1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 94870166.9
: FILING DATE: 21 Oct 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 95870076.7
: FILING DATE: 28 Jun 1995
: ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 17:

```

? SEQUENCE CHARACTERISTICS:
? LENGTH: 957 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? HYPOTHEETICAL: NO
? ANTI-SENSE: NO
?
US-08-836-075A-17

```

Query Match	60.3%	Score 269.4	DB 3	Length 957
Best Local Similarity	75.2%	Pred. No. 6.6e-81		
Matches 336	Conservative 0	Mismatches 111	Indels 0	Gaps 0

QY	1	GAGGGATTAAC	TACGGA	CAGGGAA	ATCGCCGGGTGCTCCTTTTCATCTTC	TCGTCG	60
Db	478	GACGGGA	TTAAATTATG	CACAGGGA	CTTCGCCGTTGCTCTTTTCTATCTTCTTGCTG		537
QY	61	GCCCTTGCTATC	TGCTGTCA	CTGTGCGCGGCGTCCGCTGTGCAGTCA	GAACA	CCAGCCAC	120
Db	538	GCCTCTTGCTT	GTATATCA	CCGTGCCGCTGTCTCCTATACAGTTTAA	GAACA	CCAGCCAC	597
QY	121	TCTTAAT	TGTGACCA	TATGATTTGCTCAAA	CAGCAGCAATTTGCTGGCAGCTTAA	AGATGCT	180
Db	598	TTCTACAT	TGGCGA	TTAATGACTGTGCCAATGACAGCA	ATCGTCTGGCACTCA	GGGACGG	657
QY	181	GTGCTTAC	ACGTCCCTGGATGTGTTCCAT	GTGAGAGGACCA	CAAAATCAGTCTCGCTGTGG		240
Db	658	GTGCTCAT	GTTCCTGSA	TGTGTCTCCCTGTAGAGGTG	CAGGTAA	TAGGACCTTCTGTTGG	717
QY	241	ATACCTGT	ACA	CCCAATGTGGCCGTGAGCCCA	ACTTGCGCGCTCAC	AGGGATTGGCG	300
Db	718	ACAGCGGT	CTTCGCCCA	CGTGGCTGTAGCGCGA	CCTGGTGTCTTCACTAGAGGTCTGGCG		777
QY	301	ACGCACAT	TGACCA	CCATCGTTGGCTGTGCTAC	CGTCTCAGCTTTGTTATGTGGGCGAC		360
Db	778	GCTCACAT	TGATACAT	CGTGATGTTCGGCCAC	CCCTTGTCTTGCCCTTATACATAGGGAAC		837
QY	361	TTCTGGCGG	CGCA	TGATGTGGTCTCAATTTTTCAT	TGATCTCCCTCAGACCA	CCACATC	420
Db	838	CTATGCGG	CGCTGTGATGATAG	CAGCGCAAGTTC	CCGCTCACCGCATATAC	CACTACT	897
QY	421	TTTGCTCA	AGATTGCCA	CTGCTCATATA	447		
Db	898	TTTGTCCAG	AATGCCA	CTGCTCATATA	924		

RESULT 5

US-08-836-075A-15
Sequence 15, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MARTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

```

SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-15

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Query Match      57.2%; Score 255.8; DB 3; Length 579;
Best Local Similarity 72.9%; Pred. No. 2.1e-76;
Matches 326; Conservative 0; Mismatches 121; Indels 0; Gaps 0;

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QY 1 GACGGGATAAAGTACGACCAAGGAGATGCGCGGTTGCTCTTTCTATCTTCTGCTG 60
DB 100 GACGGGATAAATTTATGNAACAGGAACTCCCTGTTCTCTTTCTATCTTCTGTTG 159
QY 61 GCCTTGATCTCTGTCTCACTGTGTGCGCGGCTCCGCTGTGAGGTCAAGAACACGCGAC 120
DB 160 GCTCTTCTGTGTGTGTCACCGTGTCTGTCTGTGCGTTGAGGTCAAAAATACAGTCA 219
QY 121 TCTTATATGTGACCAATGATTTGCTCAACAGCAGCATTTGCTGGCAGCTTAAGAGTCT 180
DB 220 GCCATATGGAACCAAGACTGCTCCAAACAGCATCGATGACCAATTTGAGGAGCGC 279
QY 181 GTGCTTACGTCCTCGATGTGTTCATGTGAGGAGGACCAAAATCAGTCTCGCTGCTG 240
DB 280 GTGCTTCAATGTTCTGATGTGTCTCCCTGCGAAGATAGCTCCGCTGCTTCACTGTTG 339
QY 241 ATACCTGTGACACCAATGTGCGGTGAGCCAACTGTGCGGCTCACCAAGGGGTTTGGG 300
DB 340 ATCCGATCTGCGCCCAACATAGCCGTGAGCAAACTGTGTCTCACCAAGGAGTGGG 399
QY 301 ACGCATTTGACCAATGTGCTGCTGCTACCGTGTCTCACTGCTTGTATGTGGGCGAC 360
DB 400 GACAGCATTTGATGTGCGTGTGATGTCCCGCACCTCTGCTGCTGCTGTAGTGGAGAT 459
QY 361 TTTCGGCGCGAGATGATGTTGCTCTCAATTTTTCATGATCTCCCTCAGACCAATC 420
DB 460 GTGTGCGCGCGAGATGATGATAGCTGACAGAGCTTTCATGTGAGCAAGCGCATTTAC 519
QY 421 TTGCTCCAGATTGCAACTGCTCGATA 447
DB 520 TTGCTCCAGATTGCAATTTGCTCCATA 546

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RESULT 6
US-08-836-075A-75
Sequence 75, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

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TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

```

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Query Match      56.2%; Score 251.2; DB 3; Length 1195;
Best Local Similarity 71.5%; Pred. No. 1.1e-74;
Matches 319; Conservative 4; Mismatches 123; Indels 0; Gaps 0;

```

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QY 1 GACGGGATAAAGTACGACCAAGGAGATCTGCCGTTGCTCTTTCTATCTTCTGCTG 60
DB 716 GACGGGATAAAGTATGAAACAGGGAACCTCCGTTGCTCTTTCTATCTTCTCTT 775
QY 61 GCCTTGATCTCTGTCTCACTGTGTGCGCGCTCCGCTGTGAGGTCAAGAACACGCGAC 120
DB 776 GCTCTTCTGTCTGATTTACCGAGCAGTTTCTGTGTGAAATCAAAAATACACAGGAAC 835
QY 121 TCTTATATGTGACCAATGATTTGCTCAACAGCAGCATTTGCTGGCAGCTTAAGATGCT 180
DB 836 ACATATACATGTGACTAAGCATGTTCAACAGATCATCAGGAGCTTNNNNNGCGC 895
QY 181 GTGCTTACGTCCTCGATGTGTTCATGTGAGGAGGACCAAAATCAGTCTCCGCTG 240
DB 896 GTGCTTACGTCCTGTGATGCTGCTCCCTGTGAAAGAGAGGCAACAGTTTCCGAGTGG 955
QY 241 ATACCTGTGACACCAATGTGCGGTGAGCCAACTGTGCGGCTCACAGAGGGGTTTGGCG 300
DB 956 ATTCCAGTCAAGCCCAACGTAACGTAACGTAACGTAACGTAACGTAACGTAACGTAAC 1015
QY 301 ACGCATTTGACCAATGATGTTGCTGTACCGTGTCTCACTGCTTGTATGTGGGCGAC 360
DB 1016 TCGCAATGACACCAATGATGATGCTGCGCAAACTTTTGTCTGCGCTCTCATAGGAGAT 1075
QY 361 TTTCGGCGCGAGATGATGTTGCTCTCAATTTTTCATGATCTCCCTCAGACCAATC 420
DB 1076 GTATGTGCGCGATTAATGATAGTGTGCCCAAGTGTATGCTGTGCGCGAGCATATCAC 1135

```

Qy 421 TTCGTCAGGATTGCAACTGCTCGAT 446
 Db 1136 TTGTCCAGACTGTACTGTTTCAT 1161

RESULT 7

US-07-925-695-1
 ; Sequence 1, Application US/07925695
 ; Patent No. 5428145
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; APPLICANT: NAKAMURA, Tetsuo
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 ; TITLE OF INVENTION: DETECTION SYSTEMS
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 ; STREET: 1850 M Street, N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: US
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/925,695
 ; FILING DATE: 19920807
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 287402/91
 ; FILING DATE: 09-AUG-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 360441/91
 ; FILING DATE: 05-DEC-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wellacher, Robert G.
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-48009
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2811
 ; TELEFAX: (202) 659-1462
 ; TELEX: WUI 64470
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 9589 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-07-925-695-1

Query Match 56.1%; Score 250.8; DB 2; Length 9589;
 Best Local Similarity 53.8%; Pred. No. 4.9e-74;
 Matches 240; Conservative 84; Mismatches 122; Indels 0; Gaps 0;

Qy 1 GACGGGATAAATAACGCAACAGGGAATCTGCCGGTTGCTCTTTTCTATCTTCTGCTG 60
 Db 818 GACGGGGUUAUUUUGACAACAGGGAACUUAACCGGUGUCUUCUUAUCUUCUCUG 877
 Qy 61 GCCTTGCTATCTGTCTCACTGTGCGCGCTCGCTGTGCAAGGTCAAGAACACCAAGCCAC 120
 Db 878 GCCCUGGUCGACGACACCAACCCCGGUCUCCGCTCCCAAGGAAACACDAGAAC 937
 Qy 121 TCTATATGATGACCAATATGCTCAACAGCAAGATTTGCGGACGCTTAAGATGCT 180
 Db 938 GGCUACUGUGUACCAACGACUACCAACUAGUAGUACUUGACUUGGCAUCCGAGGUGCU 997
 Qy 181 GTGCTTACGTCCTCGATGATGTGTTCATGTGAGAGGACCAAAATCAGTCTGCTGCTG 240

Db 998 GUUCUCCACAGCCCCGAGUGCGUCCCGUGGAGAAAGUGGGGAUAUACUUCGUGCUG 1057
 Qy 241 ATACTGTGACACCCATGATGCGCGAGGCAACCTGAGCGGCTGACCAAGGGTTTGGCG 300
 Db 1058 AUAACGGUCUACCAUUGUGGCGGACGACACCGGCGCCUCCACGACGAGGCUUACGG 1117
 Qy 301 ACCGACATTTGACACCATGCTTGCTGTGCTACCGTGTGCTCACTTTGATGTGGGCGAC 360
 Db 1118 ACCGACAUUAGCAUUGUUGAUGUCCGACAGCUCUGCGCTGCUUUAUGUGGGGAGAC 1177
 Qy 361 TTCTGGGCGGCACTGATGTTGCTCTCAATTTTATGATCTCCCTCAGACCAACATC 420
 Db 1178 CUCUGGUGUGGUGUAGUCUGGACGCCAGAUUUCUUCGCGACAGCACACUGG 1237
 Qy 421 TTCGTCAGGATTGCAACTGCTCGAT 446
 Db 1238 UUGUGCAGACUGCAUUGCUCU 1263

RESULT 8

US-07-925-695-2
 ; Sequence 2, Application US/07925695
 ; Patent No. 5428145
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; APPLICANT: NAKAMURA, Tetsuo
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 ; STREET: 1850 M Street, N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: US
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/925,695
 ; FILING DATE: 19920807
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 287402/91
 ; FILING DATE: 09-AUG-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 360441/91
 ; FILING DATE: 05-DEC-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wellacher, Robert G.
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-48009
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2811
 ; TELEFAX: (202) 659-1462
 ; TELEX: WUI 64470
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 9589 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-07-925-695-2

Query Match 56.1%; Score 250.8; DB 2; Length 9589;
 Best Local Similarity 72.6%; Pred. No. 4.9e-74;
 Matches 324; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

Qy 1 GACGGGATAAATAACGCAACAGGGAATCTGCCGGTTGCTCTTTTCTATCTTCTGCTG 60

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Db      818 GAGGGGGTAAATTTTGAACAGGAACTTACCGGTTGCTCTTTCTATCTTTGCTG 877
Qy      61 GCCTTGCTATCTGTCTACTGTGCGCGCGCTGCTGCAAGAACACACCCAC 120
Db      878 GCCCTGCTGTCTGCATCATCACCCCGGTCTCCGCTGCGAAGTGAAGAACATCATGACC 937
Qy      121 TCTTATATGGTACCAATGATTTGCTCAAGACGACATTTCTGAGCTTAAGATGCT 180
Db      938 GGCATCATGTGTACCAACGACTGCAACCAATATGATTTAGCTTACCACTCAGGCTGCT 997
Qy      181 GTGCTTACGTCCTGTGATGTGTTCATGTAGAGGACCAAAATCAGTCTGCTGCTG 240
Db      998 GTCTTCACGTCCTCCGGGTGCGTCCCGTGCAGAAAGTGGGAAATCATCTCGGTGCTGG 1057
Qy      241 ATACTGTGACACCAATATGTGGCCGTGAGCCCACTGGCGGCTTCACAGGGGTTTGCGG 300
Db      1058 ATACCGGTCTCACCAATATGTGGCCGTGACGACGCCCGGCTTCACGAGGGGCTTACGG 1117
Qy      301 ACGCACATTGACACCATGCTTGCCTGCTACCGCTGCTGCTGCTTGTATGTGGGCGAC 360
Db      1118 ACGCACATTGACATGTGTGTATGTTCGCGCACGCTTCTGCTCTTTTACGTGGGAGAC 1177
Qy      361 TTCTGCGCGCAGTATGTGTCTCTCAATTTTTCATGATCTCCCTCAGACACACATC 420
Db      1178 CTCTGCGGTGGGGTATGCTTGCAGGCCACGATGTTCAATGTCTGCGCACACACACTGG 1237
Qy      421 TTCTGCCAGATTGCACTGCTCGAT 446
Db      1238 TTGTGTCAAGACTGCAATGTCTCAT 1263

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RESULT 9

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US-08-836-075A-25
; Sequence 25, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBRT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 356 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-25

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Query Match      55.7%; Score 248.8; DB 3; Length 356;
Best Local Similarity 81.2%; Pred. No. 3,8e-74;
Matches 289; Conservative 0; Mismatches 67; Indels 0; Gaps 0;

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Qy      1 GACGGGTAATAACGACCAAGGAAATCTGCCGGTTGCTCTTTCTATCTTTGCTG 60
Db      1 GACGGGTAATAACGACCAAGGAAATCTGCCGGTTGCTCTTTCTATCTTTGCTG 60
Qy      61 GCCTTGCTATCTGTCTACTGTGCGCGCTGCTGCAAGAACACACCCAC 120
Db      61 GCCTTGCTATCTGTCTACTGTGCGCGCTGCTGCAAGAACACACCCAC 120
Qy      121 TCTTATATGGTACCAATGATTTGCTCAAGACGACATTTCTGAGCTTAAGATGCT 180
Db      121 TCTTATATGGTACCAATGATTTGCTCAAGACGACATTTCTGAGCTTAAGATGCT 180
Qy      181 GTGCTTACGTCCTGTGATGTGTTCATGTAGAGGACCAAAATCAGTCTGCTGCTG 240
Db      181 GTCTTCACGTCCTCCGGGTGCGTCCCGTGCAGAAAGTGGGAAATCATCTCGGTGCTGG 240
Qy      241 ATACTGTGACACCAATATGTGGCCGTGAGCCCACTGGCGGCTTCACAGGGGTTTGCGG 300
Db      241 ATACTGTGACACCAATATGTGGCCGTGAGCCCACTGGCGGCTTCACAGGGGTTTGCGG 300
Qy      301 ACGCACATTGACACCATGCTTGCCTGCTACCGCTGCTGCTGCTTGTATGTGGG 356
Db      301 ACGCACATTGACACCATGCTTGCCTGCTACCGCTGCTGCTGCTTGTATGTGGG 356

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RESULT 10

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US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME.
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.

```


REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEFAX: WUI 64470
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-6

Query Match 54.3%; Score 242.8; DB 2; Length 9511;
 Best Local Similarity 52.3%; Pred. No. 2.5e-71;
 Matches 234; Conservative 86; Mismatches 126; Indels 0; Gaps 0;

QY 1 GACGGATTAACCTACGCAACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 60
 DB 819 GACGGATTAACCTACGCAACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 878
 QY 61 GCCTTGCTATCT 120
 DB 879 GCCTTGCTATCT 938
 QY 121 TCTTATATGATGACCAATGATGCTCAACAGCAAGCATGCTGAGCTTAAGGATGCT 180
 DB 939 AGCAGCAACGCAACCAATGATGCTCAACAGCAAGCATGCTGAGCTTAAGGATGCT 998
 QY 181 GTGCTTACGCTCTCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 240
 DB 999 GTGCTTACGCTCTCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 1058
 QY 241 ATACTGTGACACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 300
 DB 1059 ATACTGTGACACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 1118
 QY 301 ACGCAATGACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 360
 DB 1119 ACGCAATGACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 1178
 QY 361 TTCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 420
 DB 1179 GTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1238
 QY 421 TTGCTCAGGATGCAATGCTGCTGAT 446
 DB 1239 TTGCTCAGGATGCAATGCTGCTGAT 1264

RESULT 11
 US-07-925-695-7
 Sequence 7, Application US/07925695
 Patent No. 5428145
 GENERAL INFORMATION:
 APPLICANT: OKAMOTO, Hiroaki
 APPLICANT: NAKAMURA, Tetsuo
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 TITLE OF INVENTION: DETECTION SYSTEMS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 STREET: 1850 M Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: US
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/925,695
 FILING DATE: 19920807
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Wellacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEFAX: WUI 64470
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-7

Query Match 54.3%; Score 242.8; DB 2; Length 9511;
 Best Local Similarity 70.9%; Pred. No. 2.5e-71;
 Matches 316; Conservative 4; Mismatches 126; Indels 0; Gaps 0;

QY 1 GACGGATTAACCTACGCAACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 60
 DB 819 GACGGATTAACCTACGCAACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 878
 QY 61 GCCTTGCTATCT 120
 DB 879 GCCTTGCTATCT 938
 QY 121 TCTTATATGATGACCAATGATGCTCAACAGCAAGCATGCTGAGCTTAAGGATGCT 180
 DB 939 AGCAGCAACGCAACCAATGATGCTCAACAGCAAGCATGCTGAGCTTAAGGATGCT 998
 QY 181 GTGCTTACGCTCTCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 240
 DB 999 GTGCTTACGCTCTCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 1058
 QY 241 ATACTGTGACACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 300
 DB 1059 ATACTGTGACACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 1118
 QY 301 ACGCAATGACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 360
 DB 1119 ACGCAATGACCAATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 1178
 QY 361 TTCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 420
 DB 1179 GTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1238
 QY 421 TTGCTCAGGATGCAATGCTGCTGAT 446
 DB 1239 TTGCTCAGGATGCAATGCTGCTGAT 1264

RESULT 12
 US-08-634-797-25
 Sequence 25, Application US/08634797
 Patent No. 5851759
 GENERAL INFORMATION:
 APPLICANT: WEINER, AMY J.
 TITLE OF INVENTION: HETEROIDUPLEX TRACKING ASSAY (HTA) FOR
 TITLE OF INVENTION: GENOTYPING HCV
 NUMBER OF SEQUENCES: 52

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street - R440
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/634,797
FILING DATE: 19-APR-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hardin, Alisa A.
REGISTRATION NUMBER: 33,895
REFERENCE/DOCKET NUMBER: 1226,001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 601-3274
TELEFAX: (510) 655-3542
TELEX: N/A
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 333 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-634-797-25

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Query Match      45.6%; Score 204; DB 2; Length 333;
Best Local Similarity 75.9%; Pred. No. 5,9e-59;
Matches 252; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

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QY 106 AAGAACACGAGCCCTCTTATATAGTGACCAATGATTGCTCAACAGACGATGCTGG 165
DB 1 AAGAACACGAGCCCTCTTATATAGTGACCAATGATTGCTCAACAGACGATGCTGG 60
QY 166 CAGCTTAGAGATGCTGCTTACGTCCTGATGTTGCTTCATGTGAGAGGCAACAAAT 225
DB 61 CAGCTTAGAGAGCGAGTGTCTCATGTCCCTGATGTTGCCCTTGAGAGAGATGGCAAT 120
QY 226 CAGTCTGCTCTCTGGAATACCTGTACACCCCAATGTGCGCGGAGACCAACTGCGCGCTC 285
DB 121 ACGTCTGGTGTCTGGTGTGCGCGGTACCCCAATGTGTCAAGTCAACCGGCGCTCTC 180
QY 286 ACCGAGGGGTTTGGCGAGCGACATTTGACATGATGCTGCTGCTACGCTGCTGCTAGCT 345
DB 181 ACCGAGGGGCTTGGCGAGCGACATGATGATGCTGATGTAGCGACGCTTGTCTCGCT 240
QY 346 TTGTATGTGGGCGAATTCTGCGCGCGAGTGAATGTTGCTCTCAATTTTTCATGATCTCC 405
DB 241 CTCTATGTGGGGAAGTGTGTGGCGCGGTGACGATGAGCCGCTCAGTTGTGATGATGTCG 300
QY 406 CCTAGACACCAATCTTGTCTCAGAGATTGCAA 437
DB 301 CCACGACACCACTTTGTCTCAGAGATTGCAA 332

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RESULT 13
US-08-086-428B-29
; Sequence 29, Application US/08086428B
; Patent No. 5514539
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
; TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
; TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN

```

```

TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 159
CORRESPONDENCE ADDRESS: 159
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/086,428B
FILING DATE: 29-JUN-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4070
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 576 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: 10
US-08-086-428B-29

```

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Query Match      43.6%; Score 194.8; DB 2; Length 576;
Best Local Similarity 72.3%; Pred. No. 1.1e-55;
Matches 253; Conservative 0; Mismatches 97; Indels 0; Gaps 0;

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QY 97 GTGACAGTCAAGAACACGAGCCACTCTTATATAGTGACCAATGATTGCTCAACAGACG 156
DB 1 GTCAAGTGAAGAAACACGAGTACCACTTATATAGTGACCAATGATTGCTCAACAGACG 60
QY 157 ATTGTCTGGAGTTAAGATGCTGTGCTTACAGTCCCTGATGTTTTCATGTGAGAG 216
DB 61 ATACTTGGCACTTGAAGTGTGCGGTCTTCACAGTTCGCGGTGTCTCCGAGGAGAA 120
QY 217 CACCAAAATCAGTCTGCTGCTGATACCTGTGACACCCCAATGTGCGCGGAGCAACT 276
DB 121 GTGGAATATCATCTCGGTCTGATATCCGCTCTCACCAATGTGCGCGGAGCGGCT 180
QY 277 GAGCGCGTCAACGAGGGGTTTGGAGCGACATTTGACATGACCAATGCTGCTGCTACCGTC 336
DB 181 GGGCGCCCTACGAGAGGCTTGGGAGCTCACATGACATGATGATGATGATGATGATGATG 240
QY 337 TGCTCAGCTTGTATGTGGGCGAATTCTGCGCGCGAGTGAATGTTGCTCTCAATTTTC 396
DB 241 TGTCTCGCTCTTTACGTGGGGAATTCTGCGGTGGAGATGCTGCGAGCCCAATGTTTC 300
QY 397 ATGATCTCCCTCAGACGACATCTTGTGTCAGAGATTGCACTGCTGAT 446
DB 301 ATTGTCTGCGCGGCGACCACTGCTTGTGTCAGAGATTGCACTGCTCAT 350

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RESULT 14
US-08-468-570-29
; Sequence 29, Application US/08468570
; Patent No. 5871962
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.

```

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? TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
? TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
? TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
? TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
? TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
? NUMBER OF SEQUENCES: 159
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/468,570
? FILING DATE: 6-JUN-1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/086,428
? FILING DATE: 29-JUN-1993
? CLASSIFICATION: 424
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4070US1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 29:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: 10
? US-08-468-570-29

```

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Query Match      43.6%; Score 194.8; DB 2; Length 576;
Best Local Similarity 72.3%; Pred. No. 1.1e-55;
Matches 253; Conservative 0; Mismatches 97; Indels 0; Gaps 0;

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Qy 97 GTGAGGTCAAGAACACACCACTCTTATATGCTGACCAATGATGCTCAACAGAGC 156
Db 1 GTCCAAAGTAAACACACGATACCACTATATGCTGACCAATGCTCTCAACAGAGC 60

Qy 157 ATTGCTGGAGCTTAAGATGCTGTGCTTCACTCCCTGAGATGTTCCATGTAGAGG 216
Db 61 ATCACTTGGCAACTGAGGCTGGGCTCTCCAGCTTCCGGGTGTGTCCTCCGAGAGAAA 120

Qy 217 CACCAAAATAGTCTCGCTGCTGTGATACCTGTGACACCAATGTGCGCGTGAAGCAA 276
Db 121 GTGGAAATACATCTCGGCTGTGATACCGGTCTCAACAAATGTGCGCGTGAAGCAA 180

Qy 277 GGGGCGCTCACAGAGGGGTTTGGGAGCGACATGACCAATGCGTGGTCTGTCAACGTC 336
Db 181 GGGGCGCTCACAGAGGGGTTTGGGAGCGACATGACCAATGCGTGGTCTGTCAACGTC 240

Qy 337 TGTCAAGCTTTGATGTGGGCACTTCTGCGGCGCAGTGAATGTGTCTCTCAATTTTC 396
Db 241 TGTCTCGCTCTTAACTGTGGGGAATCTTGGGCGTGAATGTGTCTCTCAATTTTC 300

Qy 397 ATGATCTCCCTCAGCACCACTTTGTCTCAAGATTGCAATGCTGAT 446
Db 301 ATGATCTCCCTCAGCACCACTTTGTCTCAAGATTGCAATGCTGAT 350

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RESULT 15
US-08-290-665A-29
? Sequence 29, Application US/08290665A
? Patent No. 5882852
? GENERAL INFORMATION:
? APPLICANT: BURKE, J., MILLER, R.H. AND
? APPLICANT: PURCELL, R.H.
? TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
? TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
? TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
? TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
? NUMBER OF SEQUENCES: 263
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,665A
? FILING DATE: 15-AUG-1994
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4116
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 29:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: US10
? US-08-290-665A-29

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Query Match      43.6%; Score 194.8; DB 2; Length 576;
Best Local Similarity 72.3%; Pred. No. 1.1e-55;
Matches 253; Conservative 0; Mismatches 97; Indels 0; Gaps 0;

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Qy 97 GTGAGGTCAAGAACACACCACTCTTATATGCTGACCAATGATGCTCAACAGAGC 156
Db 1 GTCCAAAGTAAACACGATACCACTATATGCTGACCAATGCTCTCAACAGAGC 60

Qy 157 ATTGCTGGAGCTTAAGATGCTGTGCTTCACTCCCTGAGATGTTCCATGTAGAGG 216
Db 61 ATCACTTGGCAACTGAGGCTGGGCTCTCCAGCTTCCGGGTGTGTCCTCCGAGAGAAA 120

Qy 217 CACCAAAATAGTCTCGCTGCTGTGATACCTGTGACACCAATGTGCGCGTGAAGCAA 276
Db 121 GTGGAAATACATCTCGGCTGTGATACCGGTCTCAACAAATGTGCGCGTGAAGCAA 180

Qy 277 GGGGCGCTCACAGAGGGGTTTGGGAGCGACATGACCAATGCGTGGTCTGTCAACGTC 336
Db 181 GGGGCGCTCACAGAGGGGTTTGGGAGCGACATGACCAATGCGTGGTCTGTCAACGTC 240

Qy 337 TGTCAAGCTTTGATGTGGGCACTTCTGCGGCGCAGTGAATGTGTCTCTCAATTTTC 396
Db 241 TGTCTCGCTCTTAACTGTGGGGAATCTTGGGCGTGAATGTGTCTCTCAATTTTC 300

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Fri Jan 20 09:52:38 2006

us-08-836-075b-23.rn1

Page 10

Oy 397 ATGATCTCCCTCAGCACCAACTTTCGTCCAGATTGCCA CTGCTCAT 446
 |||||
Db 301 ATTGTCTCGCGGCACCACTTGTTGTG CAGGATGC AACTGCTTCAT 350
 |||||

Search completed: January 11, 2006, 04:37:50
Job time : 112.089 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 88.4734 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075b-25
Perfect score: 356
Sequence: 1 gacgggataactatgcacac.....tgctctgccttgatgctg99 356

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued_Patents_NA:*
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2: /cgn2_6/prodata/1/ina/5 COMB.seq:*
3: /cgn2_6/prodata/1/ina/6A COMB.seq:*
4: /cgn2_6/prodata/1/ina/6B COMB.seq:*
5: /cgn2_6/prodata/1/ina/H COMB.seq:*
6: /cgn2_6/prodata/1/ina/PC/US COMB.seq:*
7: /cgn2_6/prodata/1/ina/PP COMB.seq:*
8: /cgn2_6/prodata/1/ina/RE COMB.seq:*
9: /cgn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	261.6	73.5	957	3	US-08-878-281A-143
3	248.8	69.9	447	3	US-08-836-075A-23
4	226.4	63.6	447	3	US-08-836-075A-19
5	216.8	60.9	957	3	US-08-836-075A-17
6	214.4	60.2	579	3	US-08-836-075A-15
7	211.2	59.3	1195	3	US-08-836-075A-75
8	204	57.3	9589	2	US-07-925-695-1
9	204	57.3	9589	2	US-07-925-695-2
10	195.6	54.9	9511	2	US-07-925-695-6
11	195.6	54.9	9511	2	US-07-925-695-7
12	160.4	45.1	1018	3	US-08-444-818-149
13	157.6	44.3	1019	3	US-08-444-818-155
14	156	43.8	587	3	US-08-444-818-159
15	156	43.8	12980	3	US-08-811-566-5
16	156	43.8	12980	3	US-08-811-566-5
17	154.4	43.4	9599	3	US-09-034-756-5
18	154.4	43.4	9646	3	US-09-014-416-2
19	154.4	43.4	9646	3	US-08-811-566-1
20	154.4	43.4	10803	3	US-08-034-756-1
21	152.8	42.9	447	3	US-10-259-375-17
22	152.8	42.9	501	2	US-08-836-075A-29
23	152.8	42.9	501	2	US-08-483-695-27
24	152.8	42.9	501	2	US-07-965-285-27
25	152.8	42.9	501	2	US-08-487-231-27

25	152.8	42.9	501	3	US-09-201-912-27	Sequence 27, Appl
26	152.8	42.9	574	3	US-09-878-281A-120	Sequence 120, App
27	152.8	42.9	579	3	US-09-878-281A-173	Sequence 173, App
28	152.8	42.9	579	3	US-09-878-281A-175	Sequence 175, App
29	152.8	42.9	657	3	US-08-444-818-162	Sequence 162, App
30	152.8	42.9	1019	3	US-08-444-818-154	Sequence 154, App
31	152.8	42.9	8316	3	US-08-444-818-88	Sequence 88, Appl
32	152.8	42.9	8987	3	US-08-444-818-137	Sequence 137, Appl
33	152.8	42.9	9185	3	US-08-444-818-122	Sequence 122, App
34	152.8	42.9	9185	3	US-08-444-818-123	Sequence 123, App
35	152.8	42.9	9365	3	US-09-827-688-7	Sequence 7, Appl1
36	152.8	42.9	9379	3	US-09-388-874-1	Sequence 1, Appl1
37	152.8	42.9	9379	3	US-09-916-359-1	Sequence 1, Appl1
38	152.8	42.9	9401	2	US-07-910-760-9	Sequence 9, Appl1
39	152.8	42.9	9401	2	US-08-440-519-9	Sequence 9, Appl1
40	152.8	42.9	9401	2	US-08-432-693-1	Sequence 1, Appl1
41	152.8	42.9	9401	3	US-08-440-549-9	Sequence 9, Appl1
42	152.8	42.9	9401	3	US-08-823-895A-25	Sequence 25, Appl1
43	152.8	42.9	9416	3	US-08-811-566-19	Sequence 19, Appl1
44	152.8	42.9	9416	3	US-09-034-756-19	Sequence 19, Appl1
45	152.8	42.9	9416	3	US-08-823-895A-26	Sequence 26, Appl1

ALIGNMENTS

RESULT 1
US-08-836-075A-25
; Sequence 25, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS: 207
; ADDRESS: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 356 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO

QY 1 GACGGGATAACTATGACAGAGGAACTGCTGTTGCTCTTTCTTATCTTACTG 60
Db 478 GACGGGATAACTATGACAGAGGAACTGCTGTTGCTCTTTCTTATCTTACTG 537
QY 61 GCCCTGCTTCTTGCATCACCGTCCGCTCTGCGCTGCAAGTTGGCAACCGAGTGT 120
Db 538 GCTCTGCTGCTTGTATCACCGTCCGCTCTGCGCTGCAAGTTGGCAACCGAGTGT 597
QY 121 TCTTACATGATGACATGATGCTGCAACAGACGATCGTTGGACGCTGAGAGGCC 180
Db 598 TTTCTACATGCGCATATGATGATGCGCAATGACGATCGTGGCAGCTCAGAGAGCG 657
QY 181 GTCCTTACGCTCCGTGATGATGCTCCCTGTGAGTGAAGAACACCTCCGCTGCTG 240
Db 658 GTGCTCATGTTCTGTGATGATGCTCCCTGTGAGTGAAGTGAAGTGAAGTGAAGT 717
QY 241 ATACCGGTACCCCTTAACATGCTGCTGAGCCCACTGCGCTTACCAAGGCTGCGG 300
Db 718 ACAGCGGTCTGCGCAACGCTGCTGAGCCGACCTGCTGCTCACTAGAGGTCTGCG 777
QY 301 ACACATATTGACATGATGCTGCTGCGCTGCGCAACCTGCTGCTGCTGATGAGG 356
Db 778 GCTCACATGATATACCATGATGATGCTGCGCAACCTGCTGCTGCTGATGATGAG 833

RESULT 6
US-08-836-075A-15
; Sequence 15, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 579 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO

US-08-836-075A-15
Query Match 60.2%; Score 214.4; DB 3; Length 579;
Best Local Similarity 74.7%; Pred. No. 2e-54;
Matches 266; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 1 GACGGGATAACTATGACAGAGGAACTGCTGTTGCTCTTTCTTATCTTACTG 60
Db 100 GACGGGATAACTATGACAGAGGAACTGCTGTTGCTCTTTCTTATCTTACTG 159
QY 61 GCCCTGCTTCTTGCATCACCGTCCGCTCTGCGCTGCAAGTTGGCAACCGAGTGT 120
Db 160 GCTCTGCTGCTTGTATCACCGTCCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 TCTTACATGATGACATGATGCTGCAACAGACGATCGTTGGACGCTGAGAGGCC 180
Db 220 GCTTATATGCAACCAACGATGCTGCTCAACACAGATGATGATGATGATGATGATG 279
QY 181 GTCCTTACGCTCCGTGATGATGCTCCCTGTGAGTGAAGAACACCTCCGCTGCTG 240
Db 280 GTGCTCATGTTCTGTGATGATGCTCCCTGTGAGTGAAGTGAAGTGAAGTGAAGT 339
QY 241 ATACCGGTACCCCTTAACATGCTGCTGAGCCCACTGCGCTTACCAAGGCTGCGG 300
Db 340 ATCCGATCTGCGCAACATGAGCCGAGCAACCTGCTGCTGCTGCTGCTGCTGCTG 399
QY 301 ACACATATTGACATGATGCTGCTGCGCTGCGCAACCTGCTGCTGCTGATGAGG 356
Db 400 GACGCGATGATGCTGCTGATGATGCTGCGCAACCTGCTGCTGCTGCTGCTGCTG 455

RESULT 7
US-08-836-075A-75
; Sequence 75, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1195 base pairs


```

; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-2

```

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Query Match      57.3%; Score 204; DB 2; Length 9589;
Best Local Similarity 73.3%; Pred. No. 6,7e-51;
Matches 261; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

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QY 1 GACGGATTAACATATGCAACAGGAACTGCTGCTGCTCTTTCTATCTTACTG 60
DB 818 GACGGGTTATTTTGCAACAGGAACTTACCGGTTGCTCTTTCTATCTTCTG 877
QY 61 GCCCTGCTTTCTGATCAGCGTCCGCTCTGCGCGCAAGTGGCAACCGAGTGT 120
DB 878 GCCCTGCTTTCTGATCAGCGTCCGCTCTGCGCGCAAGTGGCAACATCATGACC 937
QY 121 TCTTACATGATGCAATGATTTGCTGCAACAGCAATCGTTTGAGAGTGAAGGCC 180
DB 938 GGCCTACATGATGCAACAGCAATGATGATGATGATGATGATGATGATGATGAT 997
QY 181 GTCCTTACATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 240
DB 998 GTCCTTACATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1057
QY 241 ATACCGGTCACCCCTTACATGCTGATGATGATGATGATGATGATGATGATGAT 300
DB 1058 ATACCGGTCACCCCTTACATGCTGATGATGATGATGATGATGATGATGATGAT 1117
QY 301 ACACATATGATCATATGATGATGATGATGATGATGATGATGATGATGATGAT 356
DB 1118 ACACATATGATCATATGATGATGATGATGATGATGATGATGATGATGATGAT 1173

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```

RESULT 10
US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807

```

```

; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-6

```

```

Query Match      54.9%; Score 195.6; DB 2; Length 9511;
Best Local Similarity 52.0%; Pred. No. 2,2e-48;
Matches 185; Conservative 72; Mismatches 99; Indels 0; Gaps 0;

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QY 1 GACGGATTAACATATGCAACAGGAACTGCTGCTGCTCTTTCTATCTTACTG 60
DB 819 GACGGGTTATTTTGCAACAGGAACTTACCGGTTGCTCTTTCTATCTTCTG 878
QY 61 GCCCTGCTTTCTGATCAGCGTCCGCTCTGCGCGCAAGTGGCAACCGAGTGT 120
DB 879 GTCCTTACATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 938
QY 121 TCTTACATGATGCAATGATTTGCTGCAACAGCAATCGTTTGAGAGTGAAGGCC 180
DB 939 AGCTTACATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 998
QY 181 GTCCTTACATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 240
DB 999 GTCCTTACATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1058
QY 241 ATACCGGTCACCCCTTACATGCTGATGATGATGATGATGATGATGATGATGAT 300
DB 1059 ATACCGGTCACCCCTTACATGCTGATGATGATGATGATGATGATGATGATGAT 1118
QY 301 ACACATATGATCATATGATGATGATGATGATGATGATGATGATGATGATGAT 356
DB 1119 ACACATATGATCATATGATGATGATGATGATGATGATGATGATGATGATGAT 1174

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RESULT 11
US-07-925-695-7
; Sequence 7, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-7

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Query Match      54.9%; Score 195.6; DB 2; Length 9511;
Best Local Similarity 70.8%; Pred. No. 2.2e-48;
Matches 252; Conservative 5; Mismatches 99; Indels 0; Gaps 0;

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QY 1 GAGGGGTAATACATGCAAGGAGGACCTGCTGCTGCTCTTCTATCTTCTTACTG 60
DB 819 GAGGGGTAATATGCGAAGGAGGATTTACCGGCTGCTCTTCTTCTTCTTCTT 878
QY 61 GCCCTGCTTCTTGCATCACCGGCGGCTCTGCTGCAAGTGGCAACCGCAGTGT 120
DB 879 GCTCTTCTGTCATCCGTCACATGCCAGTGTCTGCAAGTGCAGGAACATYAGTTCT 938
QY 121 TCTTACATGCTGACCAATGATGCTGCAAGCAGCATCTGTTGGCAGCTGAGAGGCTC 180
DB 939 AGCTACTACGCCCACTATGATGCTCAAAACAGCATCCTGGCAGCTCAGTACGCA 998
QY 181 GTCTTCACGCTCCTGATGATGTTCCCTGATGATGAGAGAACAAACACTCCGCTGTG 240
DB 999 GTCTTCATCTCTCTGATGCTGCTCCATGTAAGAAATGATGAGGACCTTGTCTGTG 1058
QY 241 ATACCGGTCACCCCTATCATGCTGTGAGCCAACTGGCGGCTTACCAAGGCGCTGCG 300
DB 1059 ATACAGTAACACCCCACTGCTGCTGTAACACCGGCTGCTCAGTCTGAGCTGTGCA 1118
QY 301 ACACATATGACATGATGCTGCGCTGCGCAGCTTCTGCTGCTTGTATGTGGG 356
DB 1119 ACACAGCTGACATGATGTAATGAGCAGTACGGGCTGCTGCGCTTGTATGTGGG 1174

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```

RESULT 12
US-08-444-818-149
Sequence 149, Application US/08444818
Patent No. 6150087
GENERAL INFORMATION:
APPLICANT: Chien, David Y.
APPLICANT: Rutter, William J.
TITLE OF INVENTION: NANBV Diagnostics and Vaccines
NUMBER OF SEQUENCES: 777
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: CA
COUNTRY: USA
ZIP: 94608-2916

```

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/444,818
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/403,590
FILING DATE: 14-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Harbin, Alisa A.
REGISTRATION NUMBER: 33,895
REFERENCE/DOCKET NUMBER: 0110.002
TELEPHONE: (508) 359-3876
TELEFAX: (508) 359-3885
INFORMATION FOR SEQ ID NO: 149:
SEQUENCE CHARACTERISTICS:
LENGTH: 1018 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human 23
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1017
FEATURE:
NAME/KEY: misc_feature
LOCATION: 70
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 70 = G or C and amino acid Xaa = Ala, Pro, Gly, or
OTHER INFORMATION: Arg"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 71
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 71 = C or G and amino acid Xaa = Ala, Pro, Gly, or
OTHER INFORMATION: Arg"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 75
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 75 = C or A and amino acid Xaa = His or Gln"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 140
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OTHER INFORMATION: nucleotide 140 = C or G and amino acid Xaa = Ser or Cys"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 141
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 141 = T or A and amino acid Xaa = Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 162
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 162 = C or T and amino acid Xaa = Leu"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 263
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 263 = C or T and amino acid Xaa = Ala or Val"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 292
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 292 = T or C and amino acid Xaa = Cys or Arg"

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FEATURE:
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OTHER INFORMATION: nucleotide 309 = C or G and amino acid Xaa = Arg"
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LOCATION: 359
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OTHER INFORMATION: nucleotide 359 = C or T and amino acid Xaa = Thr or Ile"
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LOCATION: 411
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OTHER INFORMATION: nucleotide 411= T or C and amino acid Xaa = Leu "
FEATURE:
NAME/KEY: misc_feature
LOCATION: 419
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OTHER INFORMATION: nucleotide 419 = G or A and amino acid Xaa = Ser or Asn"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 429
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 429 = C or T and amino acid Xaa = Leu"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 521
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 521 = A or C and amino acid Xaa = Gln or Pro"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 590
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 590 = A or G and amino acid Xaa = Asn or Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 615
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 615 = A or G and amino acid Xaa = Val"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 619
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 619 = G or A and amino acid Xaa = Ala, Thr, Gly, C
OTHER INFORMATION: Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 620
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 620 = C or G and amino acid Xaa = Ala, Thr, Gly, C
OTHER INFORMATION: Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 700
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OTHER INFORMATION: nucleotide 700 = T or G and amino acid Xaa = Phe or Val"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 764
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 764 = C or G and amino acid Xaa = Ala or Gly"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 781
OTHER INFORMATION: /note= "A heterogeneity exists -
OTHER INFORMATION: nucleotide 781 = G or C and amino acid Xaa = Gly or Arg"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 792
OTHER INFORMATION: /note= "A heterogeneity exists -
OTHER INFORMATION: nucleotide 792 = C or T and amino acid Xaa = Ala"
FEATURE:
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NAME/KEY: misc_feature
LOCATION: 796
OTHER INFORMATION: /note= "A heterogeneity exists -
OTHER INFORMATION: nucleotide 796 = C or A and amino acid Xaa = Arg or Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 888
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 888 = T or A and amino acid Xaa = Ser or Arg"
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LOCATION: 889
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 889 = A or T and amino acid Xaa = Thr or Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 903
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 903 = C or A and amino acid Xaa = Cys"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 933
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 933 = G or A and amino acid Xaa = Ala "
FEATURE:
NAME/KEY: misc_feature
LOCATION: 962
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 962 = C or G and amino acid Xaa = Ser or Cys"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 965
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 965 = C or A and amino acid Xaa = Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1002
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 1002 = C or G and amino acid Xaa = Leu "
US-08-444-818-149

Query Match 45.1%; Score 160.4; DB 3; Length 1018;
Best Local Similarity 63.8%; Pred. No. 3.6e-38;
Matches 227; Conservative 9; Mismatches 120; Indels 0; Gaps 0;

QY 1 GACGGATTAACATGACGAAGGAACTCCCTGCTTCTTATCTTACTG 60
DB 94 GACGGCTGAACATGACGAAGGAACTCCCTGCTTCTTATCTTACTG 153
QY 61 GCCCTGCTTCTGATCACCGTGCCGCTCTGCGTGAAGTTGCAACCGCAGTGT 120
DB 154 GCCCTATCTTCTGCTGACCGTGCCGCTTCAAGCTTGAACGAGGCACTGAGGG 213
QY 121 TCTTACATGTGACCAATGATGCTGACACAGACATCGTTGGACACTGAGAGGCC 180
DB 214 CTTTACCATGTACCAATGATGCTTCAAGTATGTGACGAGGCGCATGACC 273
QY 181 GTCTTACGTCCTGATGATGTTCCCTGAGTGAAGAACAACTCCCGCTGTGG 240
DB 274 ATCTTACGCTCCGGGGGATGCTTCCCTGCTGAGGAGATTAACGCTTGAAGATGTTGG 333
QY 241 ATACCGGTGACCCCTTAACATCGCTGTGAGCAACCTGCGCTTACCAAGGCGTGGCG 300
DB 334 GTGGCGGTGACCCCGACGCTGCGGCATYABAAGAGCGCAAACTCCCGACAGCATTGCA 393
QY 301 ACAATATTAATGACATGATGTGCGTCCGACAGTTCTGCTCGCTTGATGTGGG 356
DB 394 CGTCACATGATGTGCTGTGCGGAGRCGACCCCTTGTGCGGCCCTTACGTGGG 449

RESULT 13
US-08-444-818-155
; Sequence 155, Application US/08444818
```

```

; Patent No. 6150087
; GENERAL INFORMATION:
; APPLICANT: Chien, David Y.
; APPLICANT: Ruter, William J.
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines
; NUMBER OF SEQUENCES: 777
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: CA
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,818
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,590
; FILING DATE: 14-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Harbin, Alisa A.
; REGISTRATION NUMBER: 33,895
; REFERENCE/DOCKET NUMBER: 0110.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)359-3876
; TELEFAX: (508)359-3885
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1019 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: Human 23
; US-08-444-818-155

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```

Query Match 44.3%; Score 157.6; DB 3; Length 1019;
Best Local Similarity 65.2%; Pred. No. 2.5e-37;
Matches 232; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

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Qy 1 GACGGATTAACATATGCAACAGGAACTGCTGCTCTCTTCTATCTTCTACTG 60
Db 95 GACGGCGTGAACATATGCAACAGGAACTTCTGCTCTCTTCTATCTTCTCTG 154
Qy 61 GCCCTGCTTCTTGCATCACCCTGCTCTGCTCCCTGCAAGTTGGAAACCGAGTGT 120
Db 155 GCCCTACTCTTCTGCTGACCGCTGCTCCGCTTCACTCAAGTGCCTCACTTACGGGG 214
Qy 121 TCTTACATGTCACATATGTCCTGCAACAGCAATGCTTGGAGCTCGAGAGGCC 180
Db 215 CTTTACATGTCACATATGTCCTTACTCGAGTATGTCAGAGGGGCCGATGCC 274
Qy 181 GTCCTTACGTCCTGATGTGTCCTGTCATGTCAGGAAACAACCTCCGCTGCTGG 240
Db 275 ATCTTACACGTCCTGGGGTGTCTCTTGGCTTGGGAGAGTAACGTCGAGATGTTGG 334
Qy 241 ATACCGGTACCCCTTAACATGCTGTGAGCCAACTGGCGGCTTACCAAGGCTTCGG 300
Db 335 GTGGCGGTGACCCCAAGGTCGACCAAGGACGGCAAACTCCCAACAGCGACGCTTGA 394
Qy 301 ACACATATGATCATATGTCGTCGCGCACTTCTGCTCTGCTGTATGTCGG 356
Db 395 CGTCAATGATCTGCTGTGTCGAGAGCGCACTCTGCTGCGCTTCACTGTCGG 450

```

RESULT 14

```

US-08-444-818-159
; Sequence 159, Application US/08444818
; Patent No. 6150087
; GENERAL INFORMATION:
; APPLICANT: Chien, David Y.
; APPLICANT: Ruter, William J.
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines
; NUMBER OF SEQUENCES: 777
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: CA
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,818
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,590
; FILING DATE: 14-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Harbin, Alisa A.
; REGISTRATION NUMBER: 33,895
; REFERENCE/DOCKET NUMBER: 0110.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)359-3876
; TELEFAX: (508)359-3885
; INFORMATION FOR SEQ ID NO: 159:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 587 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: Thorn
; US-08-444-818-159

```

```

Query Match 43.8%; Score 156; DB 3; Length 587;
Best Local Similarity 64.9%; Pred. No. 6.3e-37;
Matches 231; Conservative 0; Mismatches 125; Indels 0; Gaps 0;

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Qy 1 GACGGATTAACATATGCAACAGGAACTGCTGCTCTCTTCTATCTTCTACTG 60
Db 135 GACGGCGTGAACATATGCAACAGGAACTTCTGCTCTCTTCTATCTTCTCTG 194
Qy 61 GCCCTGCTTCTTGCATCACCCTGCTCTGCTCCCTGCAAGTTGGAAACCGAGTGT 120
Db 195 GCCCTGCTCTTGTGTGACCGCTGCTCCGCTTACGCTTACCAAGTGGCAACTCAAGGGG 254
Qy 121 TCTTACATGTCACATATGTCCTGCAACAGCAATGCTTGGAGCTCGAGAGGCC 180
Db 255 CTTTACATGTCACATATGTCCTTACTCGAGTATGTCAGAGGGGCCGATGCT 314
Qy 181 GTCCTTACGTCCTGATGTGTCCTGTCATGTCAGGAAACAACCTCCGCTGCTGG 240
Db 315 ATCTTACACGTCCTGGGGTGTCTCTTGGCTTGGGAGAGTAACGTCGAGATGTTGG 374
Qy 241 ATACCGGTACCCCTTAACATGCTGTGAGCCAACTGGCGGCTTACCAAGGCTTCGG 300
Db 375 GTGGCGGTGACCCCAAGGTCGACCAAGGACGGCAAACTCCCAACAGCGACGCTTGA 434
Qy 301 ACACATATGATCATATGTCGTCGCGCACTTCTGCTCTGCTGTATGTCGG 356
Db 435 CGTCAATGATCTGCTGTGTCGAGAGCGCACTCTGCTGCGCTTCACTGTCGG 490

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RESULT 15
US-08-811-566-5
; Sequence 5, Application US/08811566
; Patent No. 6127116
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/811,566
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1113-1-006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12980 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; US-08-811-566-5

Query Match 43.8%; Score 156; DB 3; Length 12980;
Best Local Similarity 64.9%; Pred. No. 1.7e-36;
Matches 231; Conservative 0; Mismatches 125; Indels 0; Gaps 0;

QY 1 GACGGATTAACATATGCAACAGGAACTGCTGCTCTTCTATCTTCTACTG 60
DB 819 GACGGCGTGAACATATGCAACAGGAACTGCTGCTCTTCTATCTTCTACTG 878
QY 61 GCCCTGCTTTTGTGATCACCCTGCGGCTCTCTGCGGCAAGTTGCAACCGCAGTGT 120
DB 879 GCCCTGCTCTTCTGACCTGACCGCTCCGCTTCACGCTTCAAGTGCATTTCTCGGCG 938
QY 121 TCTTACATGATGACCAATGATTGCTCGAAGAGCAAGCATGTTGGCACTCGAAGGCC 180
DB 939 CTTTACCATGACCAATGATTGCTCGAAGATGCTGATGATGATGATGATGATGATG 998
QY 181 GTCCCTACGTCCTGATGATGTTCCCTGTGATGGAAGCAACACTCCCGCTGCTG 240
DB 999 ATCTGCACTCGGGGGTGTCTCTGCTGCGGTAAGGCTCGAAGGTGTGG 1058
QY 241 ATACCGGTACCCCTTAACATGCTGTGAGCCACCTGCGGCTTACCAAGGCTTGG 300
DB 1059 GTGGCGGTGACCCCGACGATGCGCACAGGAGCGCAAACTCCCAACACGACCTTGA 1118
QY 301 ACACATATGACATCATTTGCGCGTCCGCGCAAGTTGCTGCTGCTGTATGTGG 356
DB 1119 CGTCAATGATGCTGCTGTGCGGAGCGCACCTTGTGCTGCGCTTACGTGG 1174

Search completed: January 11, 2006, 04:37:51
Job time : 89.4734 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 77.0414 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-27
Perfect score: 310
Sequence: 1 atgagcagcatcctaacc.....ctgtccccgcggtcttc 310

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued_Patents_NA.*
2: /cgn2_6/ptodata/1/ina/1_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/5_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PTCUS_COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfill1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	308	99.4	310	3	US-08-836-075A-27
2	288.8	93.2	573	2	US-08-290-665A-143
3	288.8	93.2	573	6	PCT-US95-10398-143
4	279.2	90.1	499	3	US-09-878-281A-163
5	279.2	90.1	573	6	US-08-290-665A-144
6	279.2	90.1	573	6	PCT-US95-10398-144
7	275	88.7	499	3	US-09-878-281A-165
8	269.6	87.0	573	2	US-08-290-665A-140
9	269.6	87.0	573	2	US-08-290-665A-145
10	269.6	87.0	573	6	PCT-US95-10398-140
11	269.6	87.0	573	6	PCT-US95-10398-145
12	268	86.5	573	6	US-08-290-665A-142
13	268	86.5	573	6	PCT-US95-10398-142
14	266.8	86.1	289	3	US-09-878-281A-191
15	264.8	85.4	573	2	US-08-290-665A-139
16	264.8	85.4	573	6	PCT-US95-10398-139
17	261.6	84.4	498	3	US-09-878-281A-193
18	258.4	83.4	573	3	US-09-194-949A-5
19	258	83.2	573	6	US-08-290-665A-141
20	256.8	82.8	573	6	PCT-US95-10398-141
21	256.8	82.8	573	6	US-08-290-665A-117
22	256.8	82.8	573	6	PCT-US95-10398-117
23	255.2	82.3	549	3	US-08-441-971-57
24	255.2	82.3	549	3	US-08-441-971-62

25	255.2	82.3	549	3	US-08-441-971-63	Sequence 63, Appl
26	255.2	82.3	549	3	US-08-221-653-57	Sequence 57, Appl
27	255.2	82.3	549	3	US-08-221-653-62	Sequence 62, Appl
28	255.2	82.3	549	3	US-08-221-653-63	Sequence 63, Appl
29	255.2	82.3	549	3	US-08-442-144A-57	Sequence 57, Appl
30	255.2	82.3	549	3	US-08-442-144A-62	Sequence 62, Appl
31	255.2	82.3	549	3	US-08-442-144A-63	Sequence 63, Appl
32	255.2	82.3	549	3	US-08-441-970-57	Sequence 57, Appl
33	255.2	82.3	549	3	US-08-441-970-62	Sequence 62, Appl
34	255.2	82.3	549	3	US-08-441-970-63	Sequence 63, Appl
35	255.2	82.3	2433	3	US-08-612-973-49	Sequence 49, Appl
36	255.2	82.3	2433	3	US-08-927-597-49	Sequence 49, Appl
37	255.2	82.3	2433	3	US-08-928-757-49	Sequence 49, Appl
38	253.6	81.8	378	3	US-08-931-855B-13	Sequence 13, Appl
39	253.6	81.8	549	3	US-08-441-971-54	Sequence 54, Appl
40	253.6	81.8	549	3	US-08-221-653-54	Sequence 54, Appl
41	253.6	81.8	549	3	US-08-442-144A-54	Sequence 54, Appl
42	253.6	81.8	549	3	US-08-441-970-54	Sequence 54, Appl
43	253.6	81.8	573	2	US-08-290-665A-118	Sequence 118, App
44	253.6	81.8	573	6	PCT-US95-10398-118	Sequence 118, App
45	252	81.3	549	3	US-08-441-971-53	Sequence 53, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-27
Sequence 27, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-27

Query Match 99.4%; Score 308; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 5,7e-93;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
DB 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
QY 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTTCGCGCAGG 120
DB 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTTCGCGCAGG 120
QY 121 GGGCCAGGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGCGTGCACCTCTGGG 180
DB 121 GGGCCAGGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGCGTGCACCTCTGGG 180
QY 181 AGACGCCAACCTATCCCAAGGCGGTGATCGAGGGAAGTCTCTGGGCAACGCAAGA 240
DB 181 AGACGCCAACCTATCCCAAGGCGGTGATCGAGGGAAGTCTCTGGGCAACGCAAGA 240
QY 241 TATCCATGCGCTCTTTACGCTAATGAGGGTTGCGGGTGGCANNATGCTTGTCCCG 300
DB 241 TATCCATGCGCTCTTTACGCTAATGAGGGTTGCGGGTGGCANNATGCTTGTCCCG 300
QY 301 CGCGGTTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 2

US-08-290-665A-143
Sequence 143, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 143:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homoeapiens
INDIVIDUAL ISOLATE: 26
US-08-290-665A-143

Query Match 93.2%; Score 288.8; DB 2; Length 573;
Best Local Similarity 95.5%; Pred. No. 2e-86;
Matches 296; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
DB 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
QY 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTTCGCGCAGG 120
DB 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTTCGCGCAGG 120
QY 121 GGGCCAGGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGCGTGCACCTCTGGG 180
DB 121 GGGCCAGGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGCGTGCACCTCTGGG 180
QY 181 AGACGCCAACCTATCCCAAGGCGGTGATCGAGGGAAGTCTCTGGGCAACGCAAGA 240
DB 181 AGACGCCAACCTATCCCAAGGCGGTGATCGAGGGAAGTCTCTGGGCAACGCAAGA 240
QY 241 TATCCATGCGCTCTTTACGCTAATGAGGGTTGCGGGTGGCANNATGCTTGTCCCG 300
DB 241 TATCCATGCGCTCTTTACGCTAATGAGGGTTGCGGGTGGCANNATGCTTGTCCCG 300
QY 301 CGCGGTTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 3

PCT-US95-10398-143
Sequence 143, Application PC/TUS9510398
Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10398

FILING DATE: 15-AUG-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/086,428

FILING DATE: 29 JUNE 1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/290/665

FILING DATE: 15 AUGUST 1994

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 143:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z6
PCT-US95-10398-143

Query Match 93.2%; Score 288.8; DB 6; Length 573;
Best Local Similarity 95.5%; Pred. No. 2e-86;
Matches 296; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 ATGAGCAGATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
DB 1 ATGAGCAGATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
QY 61 GAGCTTAAGTCCCGGGTGTGGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120
DB 61 GAGCTTAAGTCCCGGGTGTGGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120
QY 121 GGGCCCAAGTGGGTGTGGCGCGCAGCTCGAAGACTTCGAGCGGTGCAACTGTGGG 180
DB 121 GGGCCCAAGTGGGTGTGGCGCGCAGCTCGAAGACTTCGAGCGGTGCAACTGTGGG 180
QY 181 AGAGCCCAACTATCCCAAGCGCGCTGCATCCGAGGAAAGTCTTGGGCAACGCCAGA 240
DB 181 AGAGCCCAACTATCCCAAGCGCGCTGCATCCGAGGAAAGTCTTGGGCAACGCCAGA 240
QY 241 TATTCATGAGCTCTTTACGATGAGGGTTGCGGGTGGCANNATGGCTTGTCCCCC 300
DB 241 TATTCATGAGCTCTTTACGATGAGGGTTGCGGGTGGCANNATGGCTTGTCCCCC 300
QY 301 CGCGGTTCTC 310
DB 301 CGTGGCTCTC 310

RESULT 4
US-09-878-281A-163
Sequence 163, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878, 281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: Patent version 3.1
SEQ ID NO 163
LENGTH: 499
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-163

Query Match 90.1%; Score 279.2; DB 3; Length 499;
Best Local Similarity 93.5%; Pred. No. 3e-83;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAGATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
DB 1 ATGAGCAGATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
QY 61 GAGCTTAAGTCCCGGGTGTGGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120

DB 61 GAGCTTAAGTCCCGGGTGTGGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120
QY 121 GGGCCCAAGTGGGTGTGGCGCGCAGCTCGAAGACTTCGAGCGGTGCAACTGTGGG 180
DB 121 GGGCTTAAGTGGGTGTGGCGCGCAGCTCGAAGACTTCGAGCGGTGCAACTGTGGG 180
QY 181 AGAGCCCAACTATCCCAAGCGCGCTGCATCCGAGGAAAGTCTTGGGCAACGCCAGA 240
DB 181 AGAGCCCAACTATCCCAAGCGCGCTGCATCCGAGGAAAGTCTTGGGCAACGCCAGA 240
QY 241 TATTCATGAGCTCTTTACGATGAGGGTTGCGGGTGGCANNATGGCTTGTCCCCC 300
DB 241 TATTCATGAGCTCTTTACGATGAGGGTTGCGGGTGGCANNATGGCTTGTCCCCC 300
QY 301 CGCGGTTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 5
US-08-290-665A-144
Sequence 144, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BURKE, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 144:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z7
US-08-290-665A-144

Query Match 90.1%; Score 279.2; DB 2; Length 573;
Best Local Similarity 93.5%; Pred. No. 3.2e-83;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAGATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60

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Db 1 ATGAGCAGCATCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Qy 61 GACGTTAAGTTCCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 120
Db 61 GACGTTAAGTTCCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 120
Qy 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Db 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Qy 181 AGACGCCAAGCTATCCCAAGGCGCGTCTGATCCGAGGAAGTCTTGCGCAACCGCAGGA 240
Db 181 AGACGTCAGCTATCCCAAGGCACTGATCTGAGGGAAGGTCTTGCGCAACCGCAGG 240
Qy 241 TATCATAGGCTCTTTAAGCTTAAGAGGTTGCGGCGTGGCANNATGGCTTTGCCCCC 300
Db 241 TACCATAGGCTCTTTAAGCTTAAGAGGTTGCGGCGTGGCAGATGGCTTTGTCAACC 300
Qy 301 CGCGGTTCTC 310
Db 301 CGTGGCTCTC 310

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RESULT 6 PCT-US95-10398-144

; Sequence 144, Application PC/TUS9510398

GENERAL INFORMATION:

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; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 144:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:

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; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: 27
; PCT-US95-10398-144

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Query Match 90.1%; Score 279.2; DB 6; Length 573;
Best Local Similarity 93.5%; Pred. No. 3.2e-83;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

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Qy 1 ATGAGCAGCATCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Db 1 ATGAGCAGCATCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Qy 61 GACGTTAAGTTCCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 120
Db 61 GACGTTAAGTTCCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 120
Qy 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Db 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Qy 181 AGACGCCAAGCTATCCCAAGGCGCGTCTGATCCGAGGAAGTCTTGCGCAACCGCAGGA 240
Db 181 AGACGTCAGCTATCCCAAGGCACTGATCTGAGGGAAGGTCTTGCGCAACCGCAGG 240
Qy 241 TATCATAGGCTCTTTAAGCTTAAGAGGTTGCGGCGTGGCANNATGGCTTTGCCCCC 300
Db 241 TACCATAGGCTCTTTAAGCTTAAGAGGTTGCGGCGTGGCAGATGGCTTTGTCAACC 300
Qy 301 CGCGGTTCTC 310
Db 301 CGTGGCTCTC 310

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RESULT 7

US-09-878-281A-165

; Sequence 165, Application US/09878281A

; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Innogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; TITLE OF INVENTION: and therapy

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 165

; LENGTH: 499

; TYPE: DNA

; ORGANISM: hepatitis C virus

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (306)..(306)

; OTHER INFORMATION: "n" is any nucleotide

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (313)..(313)

; OTHER INFORMATION: "n" is any nucleotide

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (340)..(340)

; OTHER INFORMATION: "n" is any nucleotide

; US-09-878-281A-165

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Query Match 88.7%; Score 275; DB 3; Length 499;
Best Local Similarity 92.6%; Pred. No. 7.6e-82;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

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Qy 1 ATGAGCAGCATCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Db 1 ATGAGCAGCATCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Qy 61 GACGTTAAGTTCCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 120
Db 61 GACGTTAAGTTCCTTAAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 120
Qy 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Db 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Qy 181 AGACGCCAAGCTATCCCAAGGCGCGTCTGATCCGAGGAAGTCTTGCGCAACCGCAGGA 240
Db 181 AGACGTCAGCTATCCCAAGGCACTGATCTGAGGGAAGGTCTTGCGCAACCGCAGG 240
Qy 241 TATCATAGGCTCTTTAAGCTTAAGAGGTTGCGGCGTGGCANNATGGCTTTGCCCCC 300
Db 241 TACCATAGGCTCTTTAAGCTTAAGAGGTTGCGGCGTGGCAGATGGCTTTGTCAACC 300
Qy 301 CGCGGTTCTC 310
Db 301 CGTGGCTCTC 310

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|||||
Db 61 GACCTTAAGTTCCTCCAGCGCGGTGTGACATCGTTGCGGAGTTTACTTGTTGCGCGCAGG 120
Qy 121 GGCCCCAGTTGGGTGTGCGCGGACCTCGAAGACTTCGAGGCGGTGCGCAACCTCGGG 180
Db 121 GGCCCCAGTTGGGTGTGCGCGGACCTCGAAGACTTCGAGGCGGTGCGCAACCTCGGG 180
Qy 181 AGAGCCAACTATCCCAAGGCGCGTGCATCCGAGGGAAGTCTTGCGCAAGCCAGGA 240
Db 181 AGAGCCAACTATCCCAAGGCGCGGACCTCGAAGACTTCGAGGCGGTGCGCAACCTCGGG 240
Qy 241 TATCATGCGCTCTTTACGTAATGAGGCTTGGGTTGGCGGANNATGCTTGTCTCC 300
Db 241 TATCTTGGCGCTTTTACGGAATGAGGCTGTGGTGGCGAGGCTGCTCTGCTCCCT 300
Qy 301 CGCGGTTCTC 310
Db 301 CGCGGTTCTC 310

RESULT 8

US-08-290-665A-140
; Sequence 140, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 140:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
; US-08-290-665A-140

Query Match 87.0%; Score 269.6; DB 2; Length 573;
Best Local Similarity 91.6%; Pred. No. 5.2e-80;
Matches 284; Conservative 0; Mismatches 26; Indels 0; Gaps 0;
Qy 1 ATGAGCAGCATCTAAACCTCAAGAAACCAACGTAACCAACGCGCGCCCATG 60

|||||
Db 1 ATGAGCAGCATCTAAACCTCAAGAAACCAACGTAACCAACGCGCGCCCATG 60
Qy 61 GAGTTAAGTTCCTCCAGGTGTGCGCGGACCTCGAAGACTTCGAGGCGGTGCGCAACCTCGGG 120
Db 61 GAGTTAAGTTCCTCCAGGTGTGCGCGGACCTCGAAGACTTCGAGGCGGTGCGCAACCTCGGG 120
Qy 121 GGCCCCAGTTGGGTGTGCGCGGACCTCGAAGACTTCGAGGCGGTGCGCAACCTCGGG 180
Db 121 GGCCCCAGTTGGGTGTGCGCGGACCTCGAAGACTTCGAGGCGGTGCGCAACCTCGGG 180
Qy 181 AGAGCCAACTATCCCAAGGCGCGTGCATCCGAGGGAAGTCTTGCGCAAGCCAGGA 240
Db 181 AGAGCCAACTATCCCAAGGCGCGTGCATCCGAGGGAAGTCTTGCGCGTACGCGAGG 240
Qy 241 TATCATGCGCTCTTTACGTAATGAGGCTTGGGTTGGCGGANNATGCTTGTCTCC 300
Db 241 TATCATGCGCTCTTTACGTAATGAGGCTTGGGTTGGCGGANNATGCTTGTCTCC 300
Qy 301 CGCGGTTCTC 310
Db 301 CGCGGTTCTC 310

RESULT 9

US-08-290-665A-145
; Sequence 145, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 145:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK13
; US-08-290-665A-145

Query Match 87.0%; Score 269.6; DB 2; Length 573;

REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 145:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: homomapiens
 INDIVIDUAL ISOLATE: DK13
 PCT-US95-10398-145

Query Match 87.0%; Score 269.6; DB 6; Length 573;
 Best Local Similarity 91.6%; Pred. No. 5.2e-80;
 Matches 284; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 DB 1 ATGAGCAGCAATCCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 QY 61 GACGTTAGTTCGCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTGGCGCGAGG 120
 DB 61 GACGTTAGTTCGCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTGGCGCGAGG 120
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 QY 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 DB 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 QY 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 DB 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 QY 241 TATCATGAGCCTCTTTACGCTAATGAGGGGTGCGGGTGGCGANNATGGCTTGTCCGCC 300
 DB 241 TATCATGAGCCTCTTTACGCTAATGAGGGGTGCGGGTGGCGANNATGGCTTGTCCGCC 300
 QY 301 CGCGGTTCTC 310
 DB 301 CGCGGTTCTC 310

RESULT 12
 US-08-290-665A-142
 ; Sequence 142, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; NUMBER OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 142:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: homomapiens
 INDIVIDUAL ISOLATE: Z5
 US-08-290-665A-142

Query Match 86.5%; Score 268; DB 2; Length 573;
 Best Local Similarity 91.3%; Pred. No. 1.8e-79;
 Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 DB 1 ATGAGCAGCAATCCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 QY 61 GACGTTAGTTCGCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTGGCGCGAGG 120
 DB 61 GACGTTAGTTCGCGGGTGTGCGCAGATCGTTGCGGAGTTTACTTGTGGCGCGAGG 120
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGGG 180
 QY 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 DB 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 QY 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 DB 181 AGAGCCCAACTATCCCAAGCGCGTGCATCCGAGGAGAGTCTTGGGCAACCCAGGA 240
 QY 241 TATCATGAGCCTCTTTACGCTAATGAGGGGTGCGGGTGGCGANNATGGCTTGTCCGCC 300
 DB 241 TATCATGAGCCTCTTTACGCTAATGAGGGGTGCGGGTGGCGANNATGGCTTGTCCGCC 300
 QY 301 CGCGGTTCTC 310
 DB 301 CGCGGTTCTC 310

RESULT 13
 PCT-US95-10398-142
 ; Sequence 142, Application PC/TUS9510398
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; NUMBER OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS

```

SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z5
PCT-US95-10398-142

```

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Query Match      86.5%; Score 268; DB 6; Length 573;
Best Local Similarity 91.3%; Pred. No. 1,86-79;
Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

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QY 1 ATGAGCAGATCTTAAACCTCAAGAAACCAAGTACACCAACCGCCGCCATG 60
   |||||
DB 1 ATGAGCAGATCTTAAACCTCAAGAAACCAAGTACACCAACCGCCGCCATG 60

QY 61 GACGTTAAGTCCCGGGGTGTGCGCAGATCGTGGCGAGTTTACTTGTGCGCGCAGG 120
   |||||
DB 61 GATGTTAAATTCGCGGGGTGTGCGCAGATCGTGGCGAGTTTACTTGTGCGCGCAGG 120

QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGACTTGGAGCGGTGCGAACTCTGTGGG 180
   |||||
DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGACTTGGAGCGGTGCGAACTCTGTGGG 180

QY 181 AGAGCCCACTATCCCAAGCGCGCTGATCCGAGGGAAGTCTTGGGCAACCCAGGA 240
   |||||
DB 181 AGGGGTAGCTATCCCAAGCGCGCTGATCCGAGGGAAGTCTTGGGCTCAGCCCGGG 240

QY 241 TATCCATGAGCTCTTTACGTAATGAGGGTTGCGGGTGGGCAANNATGAGCTTGTCCCC 300
   |||||
DB 241 TACCTTGAGCTCTTTATGGAATGAGGGGTGTGGGTGGGAGGGTGTGCTCTCTCCCC 300

QY 301 CGCGGTTCTC 310
   |||||
DB 301 CGCGGATCTC 310

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RESULT 14
US-09-878-281A-191
Sequence 191, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Imogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 191

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```

LENGTH: 289
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-191

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Query Match      86.1%; Score 266,8; DB 3; Length 289;
Best Local Similarity 95.1%; Pred. No. 3,3e-79;
Matches 274; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

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QY 1 ATGAGCAGATCTTAAACCTCAAGAAACCAAGTACACCAACCGCCGCCATG 60
   |||||
DB 1 ATGAGCAGATCTTAAACCTCAAGAAACCAAGTACACCAACCGCCGCCATG 60

QY 61 GACGTTAAGTCCCGGGGTGTGCGCAGATCGTGGCGAGTTTACTTGTGCGCGCAGG 120
   |||||
DB 61 GACGTTAAGTCCCGGGGTGTGCGCAGATCGTGGCGAGTTTACTTGTGCGCGCAGG 120

QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGACTTGGAGCGGTGCGAACTCTGTGGG 180
   |||||
DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGACTTGGAGCGGTGCGAACTCTGTGGG 180

QY 181 AGAGCCCACTATCCCAAGCGCGCTGATCCGAGGGAAGTCTTGGGCAACCCAGGA 240
   |||||
DB 181 AGAGCTAGCTATCCCAAGCGCGCTGATCCGAGGGAAGTCTTGGGCTCAGCCCGGG 240

QY 241 TATCCATGAGCTCTTTACGTAATGAGGGTTGCGGGTGGGCAANNATGG 288
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DB 241 TACCTTGAGCTCTTTACGTAATGAGGGTTGTGGGTGGGCAAGATGG 288

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RESULT 15
US-08-290-665A-139
Sequence 139, Application US/08290665A
Patent No. 5882852

```

```

GENERAL INFORMATION:
APPLICANT: BORK, J., MILLER, R.H. AND
APPLICANT: PORCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 139:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

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ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z4
US-08-290-665A-139

Query Match 85.4%; Score 264.8; DB 2; Length 573;

Best Local Similarity 90.6%; Pred. No. 2.1e-78;
Matches 281; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

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QY 1 ATAGACGCGAATCCTTAACCTCAAGAAAAACCAAGTAACCAACCGCCGCCCATG 60
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1 ATAGACGCGAATCCTTAACCTCAAGAAAAACCAAGTAACCAACCGCCGCCCATG 60

QY 61 GACGTTAAGTTCCCGGCTGAGTGCAGATGCTTGCGGAGTTTACTTGTGCGCGCAGG 120
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 61 GACGTTAAGTTCCCGGCTGAGTGCAGATGCTTGCGGAGTTTACTTGTGCGCGCAGG 120

QY 121 GCGCCAGGTTGGGTGTGCGCGGACTCGGAAGAATTGGAAGCGGTGCAACCTCGTGG 180
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 121 GCGCCAGGTTGGGTGTGCGCGGACTCGGAAGAATTGGAAGCGGTGCAACCTCGTGG 180

QY 181 AGAGCGCAACCTATCCCAAGGCGGTGATCCGAGGGAAGTCTTGCGCACAGCCAGGA 240
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 181 AGAGCGCAACCTATCCCAAGGCGGTGATCCGAGGGAAGTCTTGCGCACAGCCAGGA 240

QY 241 TATCCATGGGCTCTTACGGTAATGAGGTTGCGGAGTGGGCAANNATGGCTCTTGCCCCC 300
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 241 TATCCATGGGCTCTTACGGTAATGAGGTTGCGGAGTGGGCAANNATGGCTCTTGCCCCC 300

QY 301 CGCGGTTCTC 310
   ||| ||| |||
Db 301 CGCGGTTCTC 310
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Search completed: January 11, 2006, 04:37:52
Job time : 78.0414 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-29

Perfect score: 447

Sequence: 1 gaaggagatcatttcgaac.....aagatgcattgttcacac 447

Scoring table: IDENTITY_NUC

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database: Issued Patents NA:*

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2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	446.2	99.8	447	3	US-08-836-075A-29
2	402.6	90.1	447	3	US-08-836-075A-37
3	382.2	85.5	447	3	US-08-836-075A-31
4	379	84.8	447	3	US-08-836-075A-35
5	377.4	84.4	447	3	US-08-836-075A-33
6	329.4	73.7	574	3	US-09-878-281A-118
7	329.4	73.7	579	3	US-09-878-281A-185
8	327.8	73.3	579	3	US-09-878-281A-187
9	321.4	71.9	579	3	US-09-878-281A-167
10	316.6	70.8	579	3	US-09-878-281A-183
11	303.8	68.0	579	3	US-09-878-281A-169
12	297.8	66.6	579	3	US-09-878-281A-171
13	296.2	66.3	579	3	US-09-878-281A-181
14	294.6	65.9	579	3	US-09-878-281A-173
15	288.6	64.6	447	3	US-08-836-075A-39
16	287	64.2	579	3	US-09-878-281A-177
17	285.4	63.8	574	3	US-09-878-281A-120
18	285.4	63.8	579	3	US-09-878-281A-175
19	277	62.0	579	3	US-09-878-281A-179
20	266.2	59.6	574	3	US-08-878-281A-122
21	266.2	59.6	579	3	US-09-878-281A-189
22	240.4	53.8	576	2	US-08-086-428B-42
23	240.4	53.8	576	2	US-08-086-428B-43
24	240.4	53.8	576	2	US-08-468-570-42

25	240.4	53.8	576	2	US-08-468-570-43	Sequence 43, Appl
26	240.4	53.8	576	2	US-08-290-665A-42	Sequence 42, Appl
27	240.4	53.8	576	2	US-08-290-665A-43	Sequence 43, Appl
28	240.4	53.8	576	3	US-08-466-601A-42	Sequence 42, Appl
29	240.4	53.8	576	3	US-08-466-601A-43	Sequence 43, Appl
30	240.4	53.8	576	6	PCT-US95-10398-42	Sequence 42, Appl
31	240.4	53.8	576	6	PCT-US95-10398-43	Sequence 43, Appl
32	229	51.2	9401	3	US-08-432-693-1	Sequence 1, Appl1
33	229	51.2	9416	3	US-08-811-566-19	Sequence 19, Appl
34	229	51.2	9416	3	US-09-034-756-19	Sequence 19, Appl
35	229	51.2	9539	3	US-09-014-416-2	Sequence 2, Appl1
36	229	51.2	9646	3	US-08-811-566-1	Sequence 1, Appl1
37	229	51.2	9646	3	US-09-034-756-1	Sequence 1, Appl1
38	229	51.2	10803	3	US-10-259-275-17	Sequence 17, Appl
39	227.4	50.9	501	2	US-08-483-695-2	Sequence 2, Appl1
40	227.4	50.9	501	2	US-08-483-695-27	Sequence 27, Appl
41	227.4	50.9	501	2	US-07-965-285-2	Sequence 2, Appl1
42	227.4	50.9	501	2	US-07-965-285-27	Sequence 27, Appl
43	227.4	50.9	501	2	US-08-487-231-2	Sequence 2, Appl1
44	227.4	50.9	501	2	US-08-487-231-27	Sequence 27, Appl
45	227.4	50.9	501	3	US-09-201-912-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-08-836-075A-29
; Sequence 29, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 29:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-29

Query Match 99.8%; Score 446.2; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 2,8e-136;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 GACGGATCAATTTTGCACAGGAACTCCCGGTTGCTTTCTATCTCTCTG 60
Db 1 GACGGATCAATTTTGCACAGGAACTCCCGGTTGCTTTCTATCTCTCTG 60
Qy 61 GCACTCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 61 GCACTCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Qy 121 ATTACTATGTCAACCAATGATGCTCCGATTAAGCATAGTATGAGCGGAC 180
Db 121 ATTACTATGTCAACCAATGATGCTCCGATTAAGCATAGTATGAGCGGAC 180
Qy 181 ATCTTGACCTCCGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 181 ATCTTGACCTCCGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Qy 241 GTAGCCCTTACCCCTACCGTGCAGCGCATATCGCGCGCACTTGAGTCT 300
Db 241 GTAGCCCTTACCCCTACCGTGCAGCGCATATCGCGCGCACTTGAGTCT 300
Qy 301 AGTCATGTGACTGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 301 AGTCATGTGACTGATGATGATGATGATGATGATGATGATGATGATGAT 360
Qy 361 TTRGTGCGGCTTGTCTGATGATGATGATGATGATGATGATGATGATGAT 420
Db 361 TTRGTGCGGCTTGTCTGATGATGATGATGATGATGATGATGATGATGAT 420
Qy 421 ACTACTCAAGATTCGAATGTTTCATC 447
Db 421 ACTACTCAAGATTCGAATGTTTCATC 447

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RESULT 2

US-08-836-075A-37
Sequence 37, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS: 004

INFORMATION FOR SEQ ID NO: 37:

SEQUENCE CHARACTERISTICS:

LENGTH: 447 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHEtical: NO

ANTI-SENSE: NO

US-08-836-075A-37
Query Match 90.1%; Score 402.6; DB 3; Length 447;
Best Local Similarity 93.3%; Pred. No. 5,7e-122;
Matches 417; Conservative 3; Mismatches 27; Indels 0; Gaps 0;

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Qy 1 GACGGATCAATTTTGCACAGGAACTCCCGGTTGCTTTCTATCTCTCTG 60
Db 1 GACGGATCAATTTTGCACAGGAACTCCCGGTTGCTTTCTATCTCTCTG 60
Qy 61 GCACTCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Qy 121 ATTACTATGTCAACCAATGATGCTCCGATTAAGCATAGTATGAGCGGAC 180
Db 121 ATTACTATGTCAACCAATGATGCTCCGATTAAGCATAGTATGAGCGGAC 180
Qy 181 ATCTTGACCTCCGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 181 ATCTTGACCTCCGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Qy 241 GTAGCCCTTACCCCTACCGTGCAGCGCATATCGCGCGCACTTGAGTCT 300
Db 241 GTAGCCCTTACCCCTACCGTGCAGCGCATATCGCGCGCACTTGAGTCT 300
Qy 301 AGTCATGTGACTGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 301 AGTCATGTGACTGATGATGATGATGATGATGATGATGATGATGATGAT 360
Qy 361 TTRGTGCGGCTTGTCTGATGATGATGATGATGATGATGATGATGATGAT 420
Db 361 TTRGTGCGGCTTGTCTGATGATGATGATGATGATGATGATGATGATGAT 420
Qy 421 ACTACTCAAGATTCGAATGTTTCATC 447
Db 421 ACTACTCAAGATTCGAATGTTTCATC 447

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RESULT 3

US-08-836-075A-31
Sequence 31, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-31

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Query Match      85.5%; Score 382.2; DB 3; Length 447;
Best Local Similarity 90.6%; Pred. No. 2.8e-115;
Matches 405; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGGACAAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 1 GACGGGATCAATTTTGGACAAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
QY 61 GCACTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
DB 61 GCACTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
QY 121 ATTACTATGTCACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
DB 121 ATTACTATGTCACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
QY 181 ATCTTGACCTCCAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
DB 181 ATCTTGACCTCCAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
QY 241 GTAGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
DB 241 GTAGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
QY 301 AGTCATGTGATCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360
DB 301 AGTCATGTGATCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360
QY 361 TTTGTGTGAGGCTGTTCTTCTAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
DB 361 TTTGTGTGAGGCTGTTCTTCTAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
QY 421 ACTACTCAAGATTGCAATGTTCTTCATC 447
DB 421 ACTGCCAGGATTGCAATGTTCTTCATC 447

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RESULT 4
US-08-836-075A-35
; Sequence 35, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:

```

```

APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-35

```

```

Query Match      84.8%; Score 379; DB 3; Length 447;
Best Local Similarity 89.5%; Pred. No. 3.2e-114;
Matches 400; Conservative 6; Mismatches 41; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGGACAAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 1 GACGGGATCAATTTTGGACAAGGGAATTTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
QY 61 GCACTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
DB 61 GCACTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
QY 121 ATTACTATGTCACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
DB 121 ATTACTATGTCACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
QY 181 ATCTTGACCTCCAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
DB 181 ATCTTGACCTCCAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
QY 241 GTAGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
DB 241 GTAGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
QY 301 AGTCATGTGATCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360
DB 301 AGTCATGTGATCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360

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Oy	361	TTTGTGTGGGCGCTGTTCTTCTAGTCGGGTGAGATGTTCTCTTTCGACCAAGGCGCACTGG	420
		:	
Db	361	TTGTGTGGCGGCGCTTGTCTCTGTTGGTGCAGATGTTCTCTTTTCAGCCTCGGCGCACTGG	420
Oy	421	ACTACTCAAGATTGCATTTGTTTCATC	447
Db	421	ACTACCAGAGATTGCATTTGTTTCATC	447

RESULT 5

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: Sequence 33, Application US/08836075A
: Patent No. 6180768
: GENERAL INFORMATION:
: APPLICANT: MERTENS, GEBERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: TITLE OF INVENTION: AGENTS
: NUMBER OF SEQUENCES: 207
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
: CITY: HOUSTON
: STATE: TEXAS
: COUNTRY: USA
: ZIP: 77210-4433
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Microsoft Word 6.0 / ASCII text output
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/836,075A
: FILING DATE: 21 Apr 1997
: PRIORITY APPLICATION DATA:
: APPLICATION NUMBER: PCT/EP95/04155
: FILING DATE: 23 Oct 1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 94870166.9
: FILING DATE: 21 Oct 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 95870076.7
: FILING DATE: 28 Jun 1995
: ATTORNEY/AGENT INFORMATION:
: NAME: KAMMERER, PATRICIA A.
: REGISTRATION NUMBER: 29,775
: REFERENCE/DOCKET NUMBER: INNS:004
: INFORMATION FOR SEQ ID NO: 33:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 447 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHEICAL: NO
: ANTI-SENSE: NO
:
: US-08-836-075A-33

```

	Query Match	84.4%;	Score 377.4;	DB 3;	Length 447;	
	Best Local Similarity	89.9%;	Pred. No.1-113;			
	Matches	Conservative 402;	Mismatches 43;	Indels 0;	Gaps 0;	
QY	1 GACGGGATCAATTTCGACACAGGGAACCTCCCGGTGCTCCTTTTCACTCTTCCTTG 60					
Db	1 GACGGGATTAATTATGACAACAGGGAATCTTCCCGGTGCTCCTTTTCACTCTTCCTTG 60					
QY	61 GCACCTCCTTCGTGCTGACTGTCCCCGCTTTGGGCATTAATACGAATGTCTCGGCC 120					
Db	61 GCACCTTCCTCGTGCCTGACTGTCCCCGCTTTGGGCATTAATACCAACAACCTCGGGCC 120					
QY	121 ATTACTATGTACCACAAATATTGCCGAATTCAAGCATGTGTATGAGGCGCACATAC 180					

Db	121	ATCTATCATATCCACAAGACCTGCCGAATTCAAGCATATGTATGAGGCCGACCATC	180
QY	181	ATCTTGCACTCCCAACGAGTTGCGTGCCCTGCGTGAAGAGGGGAATCATGTCACGTTGCTGG	240
Db	181	ATCTTGCACTCCCAACGAGTTGCGTGCCCTGCGTGAAGAGGGGAATCATGTCAGATGCTGG	240
QY	241	GTAGCCCTTACCCCTCAACCGTCGACAGGCATATCATCGGCGCCGCACTTGAAGTCTACCG	300
Db	241	GTGGGCCCTTACCCCTCAACCATGCAAGGCATATCATTCGGCGCACCGGTTGAAGTCTTGGCG	300
QY	301	AGTCATGTGACCTTGATGTGGGGGGCCGCACTGTTTGTTCAGCCCTTTACATCGGGGAT	360
Db	301	AGTCATGTGACCTTGATGTGGGGGGCCGCACTGCTGTGTCAGCCCTTTACATCGGGGAT	360
QY	361	TTRTGTGAGGCTTGTCTAGTCGAGTCAATGTTCTCTTCGACCAAGGCGCCACTGG	420
Db	361	TTGTGTGAGGCGGTGCGGTTCTTGTGTGTGTGAGATGTTCTCTTCGACCAAGGCGCCACTGG	420
QY	421	ACTACTCAAGATTGCATTTGTTCCATC	447
Db	421	ACCACCCCAAGATTGCACATGCTCCATC	447

RESULT

```

US-09-878-281A-118
; Sequence 118, Application US/09878281A
; Patent No. 6762024
;
GENERAL INFORMATION:
; APPLICANT: Imogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 118
; LENGTH: 574
;
TYPE: DNA
;
ORGANISM: hepatitis C virus
US-09-878-281A-118

```

Query Match	73.7%	Score 329.4;	DB 3;	Length 574;
Best Local Similarity	83.2%;	Pred. No. 6.8e-98;		
Matches 372; Conservative	2;	Mismatches 73;	Indels 0;	Gaps 0;

QY	I	GACGGAGATCAATTTTGGCAACAGGGAACTCCCCGGTGTCTCTTTTCTATCTTCTCTTG	60
Db	100	GACGGAGATCAATTTGCGACAGGGAAATTTTCCGGTGTCTTTTCTATCTTCTCTTG	159
QY	61	GCACCTCCTGTGTGCTGACTGTCCCGGCTTCGGGCATCACTATCGCAATGTCTCGGGC	120
Db	160	GCACCTCTTTGTGTGCTGACTGTTCCTCCACTCTGGCGGTCAACTATCGCAATGTCTCGGGC	219
QY	121	ATTTACTATGTCAACCATGATTTGCCGAATTCAGACATAGTATAGAGCCGACCATCAAC	180
Db	220	ATCTATCAATCAATCAACCAATGACTGCCCGCAACTCGACATAGTATGACGACCGAGCACAC	279
QY	131	ATCTTGACACTCCCAAGTGTGGGTGCCGCGCTGAGAGAGGGGAAATCACTACAGTTGGCTGG	240
Db	280	ATCTCAACCTCCCAAGGTGTATTACCTCGCGTGAAGGTTGGGAATCACTACAGCTGCTGG	339
QY	241	GTAGCCCTTAACCCCTACCGTCGACAGCGCATATACGCGCGGCACCTTGAATCTTCAAG	300
Db	340	GTAGCCCTCACTCCCAACCGTGGCGCGCTTACATCGCGCGCTCCGCTTGAAATCCTCCGG	399
QY	301	AGTCATGTGACCTTGATGATGAGGAGGCGGCACCTGTTGTTCAGCCCTTTAATCGGGGAT	360
Db	400	AGTCATGTGAACTTGATGATGAGGAGGCGGCTCTCTGCTGCTCCGCTTTAATCGAGAAC	459
QY	361	TTTGTGTGATGCTTGTCTTCACTAGTGTGATGATGATGTTCTTTTCCGACCAAGCGGCACATGG	420
Db	460	CTGTGCGGATGGATATCTTGTGGTGTGTAGAGTGTCTTTTCCAGCGCGGCGGCACATGG	519

QY 421 ACTACTCAAGATTGCAATTTGTCATC 447
DB 520 ACTACGACGAGCTGCAATTTGTCATC 546

RESULT 7

US-09-878-281A-185
; Sequence 185, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-185

Query Match 73.7%; Score 329.4; DB 3; Length 579;
Best Local Similarity 83.2%; Pred. No. 6,8e-98;
Matches 372; Conservative 2; Mismatches 73; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGCAAGAGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGGATCAATTTTGCAAGAGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTCGGCTGAGCTGTCCTCGGCTTGGCCATCAATATGCAATGCTGGGC 120
DB 160 GCACTCTCTCGGCTGAGCTGTCCTCGGCTTGGCCATCAATATGCAATGCTGGGC 219
QY 121 ATTACTATGATCAACATGATGTCCTCGGCTTGGCCATCAATATGATGAGCCGACATC 180
DB 220 GTCTACAGCTGACATGATGTCCTCGGCTTGGCCATCAATATGATGAGCCGACATC 279
QY 181 ATCTTGACCTCCGAGGTGCGTCCCTGCGTGAAGAGAGGAGATGATCAGCTTGTG 240
DB 280 ATCTTGACCTCCGAGGTGCGTCCCTGCGTGAAGAGAGGAGATGATCAGCTTGTG 339
QY 241 GTAGCCCTTACCCCTACCTGCGAGCCGCTATCATGCGCGGCTTGTAGTCTTACGG 300
DB 340 GTAGCCCTTACCCCTACCTGCGAGCCGCTTGTAGTCTTGTAGTCTTGTAGTCTTACGG 399
QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 TTTGTGAGGCTGTTCTTCTAGTGTGATGATGATGATGATGATGATGATGATGATGAT 420
DB 460 TTTGTGAGGCTGTTCTTCTAGTGTGATGATGATGATGATGATGATGATGATGATGAT 519
QY 421 ACTACTCAAGATTGCAATTTGTCATC 447
DB 520 ACTACGACGAGCTGCAATTTGTCATC 546

RESULT 8

US-09-878-281A-187
; Sequence 187, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 187
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-187

Query Match 73.3%; Score 327.8; DB 3; Length 579;
Best Local Similarity 83.0%; Pred. No. 2.3e-97;
Matches 371; Conservative 2; Mismatches 74; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGCAAGAGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGGATCAATTTTGCAAGAGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTCGGCTGAGCTGTCCTCGGCTTGGCCATCAATATGCAATGCTGGGC 120
DB 160 GCACTCTCTCGGCTGAGCTGTCCTCGGCTTGGCCATCAATATGCAATGCTGGGC 219
QY 121 ATTACTATGATCAACATGATGTCCTCGGCTTGGCCATCAATATGATGAGCCGACATC 180
DB 220 GTCTACAGCTGACATGATGTCCTCGGCTTGGCCATCAATATGATGAGCCGACATC 279
QY 181 ATCTTGACCTCCGAGGTGCGTCCCTGCGTGAAGAGAGGAGATGATCAGCTTGTG 240
DB 280 ATCTTGACCTCCGAGGTGCGTCCCTGCGTGAAGAGAGGAGATGATCAGCTTGTG 339
QY 241 GTAGCCCTTACCCCTACCTGCGAGCCGCTATCATGCGCGGCTTGTAGTCTTACGG 300
DB 340 GTAGCCCTTACCCCTACCTGCGAGCCGCTTGTAGTCTTGTAGTCTTGTAGTCTTACGG 399
QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 TTTGTGAGGCTGTTCTTCTAGTGTGATGATGATGATGATGATGATGATGATGATGAT 420
DB 460 TTTGTGAGGCTGTTCTTCTAGTGTGATGATGATGATGATGATGATGATGATGATGAT 519
QY 421 ACTACTCAAGATTGCAATTTGTCATC 447
DB 520 ACTACGACGAGCTGCAATTTGTCATC 546

RESULT 9

US-09-878-281A-167
; Sequence 167, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 167
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-167

Query Match 71.9%; Score 321.4; DB 3; Length 579;
Best Local Similarity 82.1%; Pred. No. 2.9e-95;
Matches 367; Conservative 2; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGCAAGAGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGGATCAATTTTGCAAGAGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTCGGCTGAGCTGTCCTCGGCTTGGCCATCAATATGCAATGCTGGGC 120

```
Db      160 GCGCTCCCTCGTGCCTGACTGTTCCACATCGGCGCCTTAATGCAATGCTTCGGGC 219
Qy      121 ATTACTATGTCACCAATGATGCGCAATTCAAGCATAGTGTATGAGCGGCACATCAC 180
Db      220 ATTATACATACCAATGATGCGCAATGCAATGATGATGATGATGATGATGATGATG 279
Qy      181 ATCTTGACCTCCCAAGGTTGGCGTCCCTGCTGAGAGAGAGGGAATCACTGCTTGG 240
Db      280 ATCTTACACCTCCCAAGGTTGGCGTCCCTGCTGAGAGAGGGAATCACTGCTTGG 339
Qy      241 GTAGCCCTTACCTTACCTGCGCAGCGCATATCGCGCGCATTTAGTCTTACGG 300
Db      340 GTGCGCTTCACTCCACAGTATGCGCATACCGCGTGTCTCGCTTGAAGCCCTTGG 399
Qy      301 AGTCATGTGACTGATGTGGGGGGCGGCACCTGTTTGTTCAGCCCTTTACATCGGGAT 360
Db      400 CGTCATGTGACCTGATGTGGGGGGCGGCACCTGTTTGTTCAGCCCTTTACATCGGGAT 459
Qy      361 TTTGTGAGGCTTGTCTTCTAGTGTGATGTTCTTTCCGACCAAGCGGCACTGG 420
Db      460 TTGTCGCGTGTGCTTATTTCTGTGGGCAATGTTCACTTCCACCGGCACTGCTGG 519
Qy      421 ACTACTCAAGATTGCAATTGTTCCATC 447
Db      520 ACCACTCAGACTGCAATTGTTCCATC 546
```

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RESULT 10
US-09-878-281A-183
; Sequence 183, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 183
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-183
```

Query Match 70.8%; Score 316.6; DB 3; Length 579;
Best Local Similarity 81.4%; Pred. No. 1.1e-93;
Matches 364; Conservative 2; Mismatches 81; Indels 0; Gaps 0;

```
Qy      1 GAGCGGATCAATTTTGACAAGGAACCTCCCGGTTGCTCTTCTATCTCTCTG 60
Db      100 GACGGATATATATATGACAAGGAATCTCCCGGTTGCTCTTCTATCTCTCTG 159
Qy      61 GCACTCCTCTGCTGACTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCGGGC 120
Db      160 GCACTTCTCTGCTGACTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCGGGC 219
Qy      121 ATTTACTATGTACCAATGATGTCGCGAATTCAGATGATGATGATGATGATGATGATG 180
Db      220 GTCTATCATATCAACCAATGATGTCGCGAATTCAGATGATGATGATGATGATGATG 279
Qy      181 ATCTTGACCTCCCAAGGTTGGCGTCCCTGCTGAGAGAGGGAATCACTGCTTGG 240
Db      280 ATCTTACACCTCCCAAGGTTGGCGTCCCTGCTGAGAGGGAATCACTGCTTGG 339
Qy      241 GTAGCCCTTACCTTACCTGCGCAGCGCATATCGCGCGCATTTAGTCTTACGG 300
Db      340 GTGCGCTTCACTCCACAGTATGCGCATACCGCGTGTCTCGCTTGAAGCCCTTGG 399
Qy      301 AGTCATGTGACTGATGTGGGGGGCGGCACCTGTTTGTTCAGCCCTTTACATCGGGAT 360
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Db      400 AGTCATGTGACTGATGTGGGGGGCGGCACCTGTTTGTTCAGCCCTTTACATCGGGAT 459
Qy      361 TTTGTGAGGCTTGTCTTCTAGTGTGATGTTCTTTCCGACCAAGCGGCACTGG 420
Db      460 CTGTGCGGTGCTTATTTTGTGCTGATGATTTTCTTTCCAGCGGCACTGG 519
Qy      421 ACTACTCAAGATTGCAATTGTTCCATC 447
Db      520 ACCACTCAGACTGCAATTGTTCCATC 546
```

```
RESULT 11
US-09-878-281A-169
; Sequence 169, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-169
```

Query Match 68.0%; Score 303.8; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 1.7e-89;
Matches 356; Conservative 2; Mismatches 89; Indels 0; Gaps 0;

```
Qy      1 GAGCGGATCAATTTTGACAAGGAACCTCCCGGTTGCTCTTCTATCTCTCTG 60
Db      100 GACGGATATATATATGACAAGGAATCTCCCGGTTGCTCTTCTATCTCTCTG 159
Qy      61 GCACTCCTCTGCTGACTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCGGGC 120
Db      160 GCACTTCTCTGCTGACTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCGGGC 219
Qy      121 ATTTACTATGTACCAATGATGTCGCGAATTCAGATGATGATGATGATGATGATGATG 180
Db      220 GTTTATCATATCAACCAATGATGTCGCGAATTCAGATGATGATGATGATGATGATG 279
Qy      181 ATCTTGACCTCCCAAGGTTGGCGTCCCTGCTGAGAGAGGGAATCACTGCTTGG 240
Db      280 ATCTTACACCTCCCAAGGTTGGCGTCCCTGCTGAGAGAGGGAATCACTGCTTGG 339
Qy      241 GTAGCCCTTACCTTACCTGCGCAGCGCATATCGCGCGCATTTAGTCTTACGG 300
Db      340 GTGCGCTTCACTCCACAGTATGCGCATACCGCGTGTCTCGCTTGAAGCCCTTGG 399
Qy      301 AGTCATGTGACTGATGTGGGGGGCGGCACCTGTTTGTTCAGCCCTTTACATCGGGAT 360
Db      400 CGCATGTGACCTGATGTGGGGGGCGGCACCTGTTTGTTCAGCCCTTTACATCGGGAT 459
Qy      361 TTTGTGAGGCTTGTCTTCTAGTGTGATGTTCTTTCCGACCAAGCGGCACTGG 420
Db      460 CTGTGCGGTGCTTATTTTGTGCTGATGATTTTCTTTCCAGCGGCACTGG 519
Qy      421 ACTACTCAAGATTGCAATTGTTCCATC 447
Db      520 ACCACTCAGACTGCAATTGTTCCATC 546
```

```
RESULT 12
US-09-878-281A-171
; Sequence 171, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
```

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 171
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-171

Query Match 66.6%; Score 297.8; DB 3; Length 579;
 Best Local Similarity 79.0%; Pred. No. 1.6e-87;
 Matches 351; Conservative 1; Mismatches 93; Indels 0; Gaps 0;

QY 1 GACGGATCAATTTTGAACAGGGAACCTCCCGGTTCTCTTTCTATCTTCTCTTG 60
 DB 100 GACGGATTAACATATGCAACAGGGAACCTTCTGTTGCTCTTTCTATCTTCTCTG 159
 QY 61 GCACTCTCTCGGCTGACTGTCTCCGCTTCCGCACTCACTATGCAATGTCTGGGC 120
 DB 160 GCACTCTCTCGGCTGACTGTCTCCGCTTCCGCTGCAATATCAACACCTCGGC 219
 QY 121 ATTACTATGTACCAATGATGCGCAATTCAGCAATGATGATGAGCGCACTAC 180
 DB 220 ATTACACCTCAACCAATGATGCGCTTACCTTACCTTATGAGGAGTCACTAC 279
 QY 181 ATCTTGACCTCCAGGTTGGTGCCCTGCGTGAAGAGAGGGAATCACTGTTGCTG 240
 DB 280 ATCTTGACCTCCAGGTTGGTGCCCTGCGTGAAGAGAGGGAATCACTGTTGCTG 339
 QY 241 GTAGCCCTTACCCCTTACCGTGCAGCCGCAATCATGCGCGCACTTGAGTCTTACG 300
 DB 340 GTAGCCCTTACCCCTTACCGTGCAGCCGCAATCATGCGCGCACTTGAGTCTTACG 399
 QY 301 AGTCATGTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 DB 400 CTTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
 DB 460 CTTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 519
 QY 421 ACTACTCAAGATTTGCAATTTGTTCCATC 447
 DB 520 ACCACCCAGAGTGCAATTTGTTCCACC 546

RESULT 13
 US-09-878-281A-181
 ; Sequence 181, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 181
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (152)..(152)
 ; OTHER INFORMATION: "n" is any nucleotide
 US-09-878-281A-181

Query Match 66.3%; Score 296.2; DB 3; Length 579;
 Best Local Similarity 78.9%; Pred. No. 5.4e-87;
 Matches 351; Conservative 0; Mismatches 94; Indels 0; Gaps 0;

QY 1 GACGGATCAATTTTGAACAGGGAACCTCCCGGTTCTCTTTCTATCTTCTCTTG 60
 DB 100 GACGGATTAACATATGCAACAGGGAACCTTCTGTTGCTCTTTCTATCTTCTCTG 159
 QY 61 GCACTCTCTCGGCTGACTGTCTCCGCTTCCGCACTCACTATGCAATGTCTGGGC 120
 DB 160 GCACTCTCTCGGCTGACTGTCTCCGCTTCCGCTGCAATATCAACACCTCGGC 219
 QY 121 ATTACTATGTACCAATGATGCGCAATTCAGCAATGATGATGAGCGCACTAC 180
 DB 220 ATTACACCTCAACCAATGATGCGCTTACCTTACCTTATGAGGAGTCACTAC 279
 QY 181 ATCTTGACCTCCAGGTTGGTGCCCTGCGTGAAGAGAGGGAATCACTGTTGCTG 240
 DB 280 ATCTTGACCTCCAGGTTGGTGCCCTGCGTGAAGAGAGGGAATCACTGTTGCTG 339
 QY 241 GTAGCCCTTACCCCTTACCGTGCAGCCGCAATCATGCGCGCACTTGAGTCTTACG 300
 DB 340 GTAGCCCTTACCCCTTACCGTGCAGCCGCAATCATGCGCGCACTTGAGTCTTACG 399
 QY 301 AGTCATGTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 DB 400 CTTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
 DB 460 CTTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 519
 QY 421 ACTACTCAAGATTTGCAATTTGTTCCATC 446
 DB 520 ACCACCCAGAGTGCAATTTGTTCCACC 545

RESULT 14
 US-09-878-281A-173
 ; Sequence 173, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 173
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-173

Query Match 65.9%; Score 294.6; DB 3; Length 579;
 Best Local Similarity 78.5%; Pred. No. 1.8e-86;
 Matches 351; Conservative 1; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATCAATTTTGAACAGGGAACCTCCCGGTTCTCTTTCTATCTTCTCTTG 60
 DB 100 GACGGATTAACATATGCAACAGGGAACCTTCTGTTGCTCTTTCTATCTTCTCTG 159
 QY 61 GCACTCTCTCGGCTGACTGTCTCCGCTTCCGCACTCACTATGCAATGTCTGGGC 120
 DB 160 GCACTCTCTCGGCTGACTGTCTCCGCTTCCGCTGCAATATCAACACCTCGGC 219
 QY 121 ATTACTATGTACCAATGATGCGCAATTCAGCAATGATGATGAGCGCACTAC 180
 DB 220 ATTACACCTCAACCAATGATGCGCTTACCTTACCTTATGAGGAGTCACTAC 279
 QY 181 ATCTTGACCTCCAGGTTGGTGCCCTGCGTGAAGAGAGGGAATCACTGTTGCTG 240

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Db      280  ATCTTGATCTTCCAGAGATGCGTCCCTGTGTGAGAACTGGGAACCAAGTCAAGATGCTGG 339
Qy      241  GTAGCCCTTACCCCTACCGTGCAGCGCCGACATCGCGCGCCACTTGGTCTTACGG 300
Db      340  ATAGCCTTGACCCCTAGCTGGGCGCGCACATGGCGCTCCACTTGAGTCCATCGA 399
Qy      301  AGTCATGTGACATGATGATGGGAGCGCCACTGTTTTCAGCCCTTTACATCGGGAT 360
Db      400  CGTATGTGATTTGATGTAGTGACATGCCCATTTGTCTCCGACTCTACATTGAGAT 459
Qy      361  TTTTGTGGGCTTGTCTTATGTGCTCAGTGTCTTCTTTCCAGCAAGCGCCACTGG 420
Db      460  CTGTGCGGAGGCAATTTCTAGTGGCGCAGATGTTCACTTCAAGCGCCGCTGCACTGG 519
Qy      421  ACTACTCAAGTGCATTTGTTCCATC 447
Db      520  ACCACCGAGAGTGCATTTGTTCCATC 546

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RESULT 15

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US-08-836-075A-39
; Sequence 39, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 9487016.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 39:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEtical: NO
; ANTI-SENSE: NO
US-08-836-075A-39

```

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Query Match      64.6%; Score 288.6; DB 3; Length 447;
Best Local Similarity 77.9%; Pred. No. 1.5e-84;
Matches 348; Conservative 0; Mismatches 99; Indels 0; Gaps 0;

```

```

Qy      1  GACGGATCAATTTTTCACACAGGAACTCCCGGTGTCTCTTTCTATCTTCTCTTG 60
Db      1  GAGGGATCAATTTATGCAACAGGAACTCCCGGTGTCTCTTTCTCTATCTTCACTCG 60
Qy      61  GCACTCTCTCGTGCCTGACTGTCCCGCTTGGCCCATCACTATGCAATGTCTGGGC 120
Db      61  GCACTTCTCTCGTGCCTGACTGTCCCGCTTGGCCCATCACTATGCAATGTCTGGGC 120
Qy      121  ATTACTATGTACCAATGATTTGCCGAATTCAAGCATGTGTATGAGGCCGACATCAC 180
Db      121  ATTACACGTCACCAACGACTGCCGAATTCAGCATGTGTATGAGGCCGACATCAC 180
Qy      181  ATCTTGACCTCCCAAGTTGCGTCCCTGTGAGAGAGAGAGATCAATCACTTGTCTGG 240
Db      181  ATCTTACACTTACCAAGGTGTGTACCTGTGTGAGAGATGAGAGATCACTTGTCTGG 240
Qy      241  GTAGCCCTTACCCCTTACCGTGCAGCGCCATACATGCGGCGGCACTTGAATTTTACGG 300
Db      241  GTGGCCTTAAACACTTACCGTGCAGCGCCCATCTTTCGGCTTCACTTATGTCCGTACGG 300
Qy      301  AGTCATGTGACTTGAATGGTGGGGCGCCGCACTGTTTTCAGCCCTTACATCGGGGAT 360
Db      301  CGCATGTGATCTGATGAGGTGGTGAAGCTTACCTTATCGTCTGCCCTTACGTTGAGAC 360
Qy      361  TTTTGTGGGCTTGTCTTCTAGTGGTCAAGATGTTCTTTCCGACCAAGCGCCACTGG 420
Db      361  CTGTGGGGGGTGCCTTCTTCTAGTGGGAGATGTTTACCTTCCAGCGGCGTCCGCACTGG 420
Qy      421  ACTACTCAAGATTTGCAATTTGTTCCATC 447
Db      421  ACTGTCCAGACTGCAACTGTTCCATC 447

```

Search completed: January 11, 2006, 04:37:53
Job time : 112.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-31
Perfect score: 447
Sequence: 1 gacggagcatcatgcacac.....aggatgcattgtctatc 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapept 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued Patents NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCITUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	447	100.0	447	3	US-08-836-075A-31 Sequence 31, Appl
2	384.6	86.0	447	3	US-08-836-075A-33 Sequence 33, Appl
3	384.2	86.0	447	3	US-08-836-075A-37 Sequence 37, Appl
4	383	85.7	447	3	US-08-836-075A-35 Sequence 35, Appl
5	382.2	85.5	447	3	US-08-836-075A-29 Sequence 29, Appl
6	349.4	78.2	579	3	US-09-878-281A-185 Sequence 185, App
7	347.8	77.8	579	3	US-09-878-281A-118 Sequence 118, App
8	346.2	77.4	579	3	US-09-878-281A-187 Sequence 187, App
9	341.4	76.4	579	3	US-09-878-281A-183 Sequence 183, App
10	330.2	73.9	579	3	US-09-878-281A-167 Sequence 167, App
11	317.4	71.0	579	3	US-09-878-281A-169 Sequence 169, App
12	311	69.6	579	3	US-09-878-281A-171 Sequence 171, App
13	311	69.6	579	3	US-09-878-281A-173 Sequence 173, App
14	294.6	65.6	579	3	US-09-878-281A-181 Sequence 181, App
15	293.4	65.6	579	3	US-09-878-281A-120 Sequence 120, App
16	293.4	65.6	579	3	US-09-878-281A-175 Sequence 175, App
17	293.4	65.6	579	3	US-09-878-281A-177 Sequence 177, App
18	287	64.2	447	3	US-08-836-075A-39 Sequence 39, Appl
19	279	62.4	579	3	US-09-878-281A-179 Sequence 179, App
20	272.6	61.0	579	3	US-09-878-281A-122 Sequence 122, App
21	272.6	61.0	579	3	US-09-878-281A-189 Sequence 189, App
22	258.8	57.9	576	2	US-08-086-428B-42 Sequence 42, Appl
23	258.8	57.9	576	2	US-08-468-570-42 Sequence 42, Appl
24	258.8	57.9	576	2	US-08-290-665A-42 Sequence 42, Appl

25	258.8	57.9	576	3	US-08-466-601A-42 Sequence 42, Appl
26	258.8	57.9	576	6	PCT-US95-10398-42 Sequence 42, Appl
27	255.6	57.2	576	2	US-08-086-428B-43 Sequence 43, Appl
28	255.6	57.2	576	2	US-08-468-570-43 Sequence 43, Appl
29	255.6	57.2	576	2	US-08-290-665A-43 Sequence 43, Appl
30	255.6	57.2	576	3	US-08-466-601A-43 Sequence 43, Appl
31	255.6	57.2	576	6	PCT-US95-10398-43 Sequence 43, Appl
32	226.4	50.6	576	2	US-08-086-428B-44 Sequence 44, Appl
33	226.4	50.6	576	2	US-08-468-570-44 Sequence 44, Appl
34	226.4	50.6	576	2	US-08-290-665A-44 Sequence 44, Appl
35	226.4	50.6	576	3	US-08-466-601A-44 Sequence 44, Appl
36	226.4	50.6	576	6	PCT-US95-10398-44 Sequence 44, Appl
37	226.2	50.6	9599	3	US-09-014-416-2 Sequence 2, Appl
38	226.2	50.6	9646	3	US-08-811-566-1 Sequence 1, Appl
39	226.2	50.6	9646	3	US-09-034-756-1 Sequence 1, Appl
40	226.2	50.6	10803	3	US-10-259-275-17 Sequence 17, Appl
41	224.6	50.2	12980	3	US-08-811-566-5 Sequence 5, Appl
42	224.6	50.2	12980	3	US-09-034-756-5 Sequence 5, Appl
43	223.4	50.0	1018	3	US-08-444-818-151 Sequence 151, App
44	223	49.9	9401	2	US-08-432-693-1 Sequence 1, Appl
45	223	49.9	9416	3	US-08-811-566-19 Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-31
Sequence 31, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-31

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 4,1e-128;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTCTTTCTATCTTCTCTG 60
DB 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTCTTTCTATCTTCTCTG 60
QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
QY 181 ATCTGACCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 ATCTGACCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 GTGGCCCTTACTCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 241 GTGGCCCTTACTCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 TTGTGTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 361 TTGTGTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 ACTGCCAGATTGCAATTGTTCTATC 447
DB 421 ACTGCCAGATTGCAATTGTTCTATC 447
```

RESULT 2

US-08-836-075A-33
Sequence 33, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON
STATE: TEXAS

COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

COMPUTER READABLE FORM:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-33

Query Match 86.0%; Score 384.6; DB 3; Length 447;
Best Local Similarity 91.3%; Pred. No. 7.7e-109;
Matches 408; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

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QY 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTCTTTCTATCTTCTCTG 60
DB 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTCTTTCTATCTTCTCTG 60
QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
QY 181 ATCTGACCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 ATCTGACCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 GTGGCCCTTACTCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 241 GTGGCCCTTACTCTTCCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 TTGTGTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 361 TTGTGTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 ACTGCCAGATTGCAATTGTTCTATC 447
DB 421 ACTGCCAGATTGCAATTGTTCTATC 447
```

RESULT 3

US-08-836-075A-37
Sequence 37, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON
STATE: TEXAS

COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-37

Query Match 86.0%; Score 384.2; DB 3; Length 447;
Best Local Similarity 91.1%; Pred. No. 1e-108;
Matches 407; Conservative 1; Mismatches 39; Indels 0; Gaps 0;
QY 1 GACGGGATCAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60
DB 1 GACGGGATTAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60
QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
DB 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
QY 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240
DB 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240
QY 241 GTGCGCTTACTCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTG 300
DB 241 GTGCGCTTACTCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTG 300
QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
QY 361 TTGCTGCGGCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 361 CTGAGCGGCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 ACTGCCAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 447
DB 421 ACTGCCAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 447

RESULT 4
US-08-836-075A-35
Sequence 35, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
CORRESPONDENCE ADDRESSES:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-35

Query Match 85.7%; Score 383; DB 3; Length 447;
Best Local Similarity 90.4%; Pred. No. 2.4e-108;
Matches 404; Conservative 4; Mismatches 39; Indels 0; Gaps 0;
QY 1 GACGGGATCAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60
DB 1 GACGGGATCAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60
QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
DB 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
QY 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240
DB 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240
QY 241 GTGCGCTTACTCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTG 300
DB 241 GTGCGCTTACTCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTG 300
QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360

QY 421 ACTGCCAGGATTGCAATTGTTCTATC 447
Db 520 ACTACGAGGACTGCAATTGTTCCATC 546

RESULT 7

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US-09-878-281A-118
: Sequence 118, Application US/09878281A
: Patent No. 6762024
:
: GENERAL INFORMATION:
: APPLICANT: Immunogenetics N.V.
: TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
: TITLE OF INVENTION: and therapy
: FILE REFERENCE: 35
: CURRENT APPLICATION NUMBER: US/09/878,281A
: CURRENT FILING DATE: 2001-06-12
: NUMBER OF SEQ ID NOS: 284
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 118
: LENGTH: 574
: TYPE: DNA
: ORGANISM: hepatitis C virus
US-09-878-281A-118

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Query Match	77.8%	Score 347.8;	DB 3;	Length 574;
Best Local Similarity	86.1%;	Pred. No. 2e-97;		
Matches 385;	Conservative 0;	Mismatches 62;	Indels 0;	Gaps 0

QY	1	GAGGGATCAATTATATGCAACAGGAACCTTCCGGTGTCTTTTCTTATCTCTCTG	60
Db	100	GAGGGATCAATTATATGCAACAGGAATCTTCCGGTGTCTTTCTTATCTCTCTG	158
QY	61	GCACTCTCTGTCGCTGACTGTTCCCGCTTGAGGCATTTAACTACCGCAACCTCGAGC	120
Db	160	GCACTCTTTCGTCCTGACTGTTCCCACTCGGCGCTCACTATACGCAATGCTCTCGAGC	219
QY	121	ATCTACACGTCACCAATGATCGCCGAACTGACAGATAGTTTATGAGCCGACACAC	180
Db	220	ATCTATCAATCAACCAATGATCGCCGAACTGACAGATAGTTTATGAGACCGACACAC	279
QY	181	ATCTTGACCTTTCAGGTTCGTCGCTGACCTGCGAGAACATGGGAATCACTGTTGCTG	240
Db	280	ATCTTACACTCCCAAGGATTTTAACTCTGCGAGAGGTTGGGAATCACTGCTGCTG	339
QY	241	GTGGCCCTTATCTCTACCGTCGACAGGCCATATCATCGGCGACCGCTTGAGTCTTGCAG	300
Db	340	GTGGCCCTTACTCTCCACCGTCGCGGCGCTTATCATCGCGCTCGCTTGAATCCCTCGG	399
QY	301	AGTCATGTGGATCTGATGATGGGGGCGTCGACTGTTTCTCAGCCCTTATATCGGGGAT	366
Db	400	AGTCATGTGGATCTGATGATGGGTCGCTTACGTGTGCTCGCTTTTATATGAGAGAC	458
QY	361	TTGTGTGGCGGCTGTCTTCTGTGGTGCAGATGTTTTCTTCCAGCACGACGCACTG	420
Db	460	CTGTGCGGTGCGCTATTTCTTGTTGGTGCAGATGTTCTCTTTCAGCGCGGCGCACTG	519
QY	421	ACTGCCAGATTTGCAATGTTCTTATC 447	
Db	520	ACTACGAGACATGCAATGTTCTTATC 546	

RESULT 8

US-09-878-281A-187
Sequence 187, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12

```

: NUMBER OF SEQ ID NOS: 284
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 187
: LENGTH: 579
: TYPE: DNA
: ORGANISM: hepatitis C virus
: US-09-878-281A-187

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Query Match	77.4%;	Score 346.2;	DB 3;	Length 579;
Best Local Similarity	85.9%;	Pred. NO. 6.2e-97;		
Matches 384;	Conservative 0;	Mismatches 63;	Indels 0;	Gaps 0

QY	1	GACGGGATCAATTATGACAAAGGGAAACCTTCCCGGTGCTCTTTTCTATCTTCCTTGG	60
Db	100	GACGGGATCAATTATGACAAAGGGAAATTTCCCGGTGCTCTTCTATCTTCTCTTGG	159
QY	61	GCACTCTCTGCGCTGACTGTGTTCCGGCTTGGGCATTTAACTAACGCCAACCTTG39C	120
Db	160	GCACCTCTTTCGTGCGCTGACTGTGTTCCACCTCGGCCCTCAACTATGCCAAATGCTCGGGC	219
QY	121	ATCTACAGGTATCCAAATGACTGCCCCGAACCTGAGCAATGTTATGAGGCGGACACAC	180
Db	220	ATCTATCAATATCAACCAATGACTGCCCCGAACCTGAGCAATGTTATGAGACCGAGACACAC	279
QY	181	ATCTTGCACTTTCAGGTGGCGTCCCTGCGGTGAGAACTGGGAATCAGTCACTTGTG	240
Db	280	ATCTTACACTTCCCAAGGGGTGTTTACCTTGCGGTGAGGGTGGGAATCAGTCACTGTGCTGG	339
QY	241	GTGGCCCTTACTTCTTACCGTGGCAGCGCATATCATTCGGCGCACCGCTTGAAGTCTTCCGG	300
Db	340	GTGGCCCTTACTTCTTACCGTGGCGCGCTTACATCGCGCTCGCTTGAATCCCTCCGG	399
QY	301	AGTCATGTGATCTGATGGTGGGGGCTGCACCTGTTTGTCAGGCCCTTTACATCGGGAT	360
Db	400	AGTCATGTGATCTGATGGTGGTGGCGCTGCTCGTCTTCCTTATATCGAGAC	459
QY	361	TGTGTGGCGGCTTGTCTTGGTGTGAGATGTTTTCTTTCGACACGACGCACTGG	420
Db	460	CTGTGGCGGTGGGTATTTTTGGTGTGAGATGTTCTTTCACGCGCGGCGCACTGG	519
QY	421	ACTGCCACGAGTTGCAATGTTTATC	447
Db	520	ACTACGACGACTGCATTTGTTCAATC	546

RESULT 3

```

US-09-878-281A-183
; Sequence 183: Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and treatment
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 183
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
; US-09-878-281A-183

```

```
Query Match      76.4%; Score 341.4; DB 3; Length 579;
Best Local Similarity 85.2%; Pred. No. 1.9e-95;
Matches 381; Conservative 0; Mismatches 66; Indels 0; Gaps 0;
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Oy I GACGGGATCAATTATGCAACAGGAAACCTTCCGGTGCCTTTTCTATCTTCCCTTG 60
 Db 100 GACGGATTAATTAAGCAACAGGAATCTCCCGGTGGCTTTTCTATCTCCCTTG 159
 Oy 61 GCACTCTCTCGTGCCTGACTGTTCCGGCTGGGCATTAATCAACGCAACACTCGGAC 120

```

Db      160 GCACTTTCTTGTCGTCGACGTGTTCCCACTCAGCCCGTCAACTATCCGAACGCTCGGGC 219
Qy      121 ATCTACCAAGTCACCAATGACTGCCGGAATCTGAGCATAGTTTATGAGCGGACCAAC 180
Db      220 GTCTATCATATCAACCAATGACTGCCGGAATTCGAGCATAGTATGAGGCTGACTTACAC 279
Qy      181 ATCTGACACCTTCAGGTGCGTGGCCCTGCGGTGAGAACTGGGAATGATCACTTGTGCTGG 240
Db      280 ATCTTACACCTCTCCCTGGGTGCTTACCTCTGCGTGAAGGTTGGGAATCACTGCTGCTGG 339
Qy      241 GTGGCCCTTACTCTTACCTGTCGACGCGCATATACATCCGCGCATCCGCTTGAATCTTCGG 300
Db      340 GTGGCCCTTACTCTTACCTGTCGACGCGCATATACATCCGCGCATCCGCTTGAATCTTCGG 399
Qy      301 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db      400 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
Qy      361 TTGTGTGGCGGCTGTTCTTGTGTTGTGATGATGTTTCTTCCGACACGACGCGCTGCG 420
Db      460 CTGTGCGGTGCGGATTTTGTGTTGTGATGATGTTTCTTCCGACGCGACGCGCTGCG 519
Qy      421 ACTGCCAGGATTCGAAATGTTCTATC 447
Db      520 ACCAGCAGGACGCTGCAATGTTCTATC 546

```

```

RESULT 10
US-09-878-281A-167
; Sequence 167, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 167
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-167

```

```

Query Match      73.9%; Score 330.2; DB 3; Length 579;
Best Local Similarity 83.7%; Pred. No. 5.4e-92;
Matches 374; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

```

```

Qy      1 GACGGGATCAATTTATGCAACAGGAACTTCCCGTGTCTCTTTTCTATCTTCTCTTG 60
Db      100 GACGGGATCAATTTATGCAACAGGAACTTCCCGTGTCTCTTTTCTATCTTCTCTTG 159
Qy      61 GCACTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
Db      160 GCGCTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 219
Qy      121 ATCTACCAAGTCACCAATGACTGCCGGAATCTGAGCATAGTTTATGAGCGGACCAAC 180
Db      220 ATTATATCATCAACCAATGACTGCCGGAATGCAAGCATAGTATGAGAACTGGAATATC 279
Qy      181 ATCTTGCACCTTCCAGGTGCGTGGCCCTGCGGTGAGAACTGGGAATCACTGCTGCTGG 240
Db      280 ATCTTACACCTTCCAGGTGCGTGGCCCTGCGGTGAGAACTGGAATCACTGCTGCTGG 339
Qy      241 GTGGCCCTTACTCTTACCTGTCGACGCGCATATACATCCGCGCATCCGCTTGAATCTTCGG 300
Db      340 GTGGCCCTTACTCTTACCTGTCGACGCGCATATACATCCGCGCATCCGCTTGAATCTTCGG 399
Qy      301 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360

```

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Db      400 CTGATGTGAGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
Qy      361 TTGTGTGGCGGCTGTTCTTGTGTTGTGATGATGTTTCTTCCGACGAGCGCACTGG 420
Db      460 TTGTGTGGCGGCTTATTTCTTGTGTTGTGATGATGATGATGATGATGATGATGAT 519
Qy      421 ACTGCCAGGATTCGAAATGTTCTATC 447
Db      520 ACCAGCAGGACGCTGCAATGTTCTATC 546

```

```

RESULT 11
US-09-878-281A-169
; Sequence 169, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-169

```

```

Query Match      71.0%; Score 317.4; DB 3; Length 579;
Best Local Similarity 81.9%; Pred. No. 4.9e-88;
Matches 366; Conservative 0; Mismatches 81; Indels 0; Gaps 0;

```

```

Qy      1 GACGGGATCAATTTATGCAACAGGAACTTCCCGTGTCTCTTTTCTATCTTCTCTTG 60
Db      100 GACGGGATCAATTTATGCAACAGGAACTTCCCGTGTCTCTTTTCTATCTTCTCTTG 159
Qy      61 GCACTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 120
Db      160 GCACTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 219
Qy      121 ATCTACCAAGTCACCAATGACTGCCGGAATCTGAGCATAGTTTATGAGCGGACCAAC 180
Db      220 GTTATATCATCAACCAATGACTGCCGGAATGCAAGCATAGTATGAGAACTGGAATATC 279
Qy      181 ATCTTGCACCTTCCAGGTGCGTGGCCCTGCGGTGAGAACTGGGAATCACTGCTGCTGG 240
Db      280 ATCTTACACCTTCCAGGTGCGTGGCCCTGCGGTGAGAACTGGAATCACTGCTGCTGG 339
Qy      241 GTGGCCCTTACTCTTACCTGTCGACGCGCATATACATCCGCGCATCCGCTTGAATCTTCGG 300
Db      340 GTGGCCCTTACTCTTACCTGTCGACGCGCATATACATCCGCGCATCCGCTTGAATCTTCGG 399
Qy      301 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db      400 CGCATGTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
Qy      361 TTGTGTGGCGGCTGTTCTTGTGTTGTGATGATGTTTCTTCCGACGAGCGCACTGG 420
Db      460 CTGTGCGGTGCGGATTTTGTGTTGTGATGATGTTTCTTCCGACGCGACGCGCTGCG 519
Qy      421 ACTGCCAGGATTCGAAATGTTCTATC 447
Db      520 ACCAGCAGGACGCTGCAATGTTCTATC 546

```

```

RESULT 12
US-09-878-281A-171
; Sequence 171, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.

```

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE OF INVENTION: and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 171
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-171

Query Match 69.6%; Score 311; DB 3; Length 579;
Best Local Similarity 81.0%; Pred. No. 4.6e-86;
Matches 362; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGGGAACCTTCCGGTTCCTTTTCTATCTCTCTTG 60
DB 100 GACGGATTAATTAATGACAGGGAACCTTCCGGTTCCTTTTCTATCTCTCTTG 159
QY 61 GCACTCTCTGTCGCTGACTGTCCTTCCGGTTCGCAATTAATGACAGGGAACCTTCCGGG 120
DB 160 GCACTCTCTGTCGCTGACTGTCCTTCCGGTTCGCAATTAATGACAGGGAACCTTCCGGG 219
QY 121 ATCTACCACTGACCAATGATGAGGCGGCACTGAGCATATGTTATGAGGCGGCAACAC 180
DB 220 ATCTACCACTGACCAATGATGAGGCGGCACTGAGCATATGTTATGAGGCGGCAACAC 279
QY 181 ATCTTGACCTTCCAGGTGCGTCCCTGCGTGAACCTGGAATCACTGATGCTGCG 240
DB 280 ATCTTGACCTTCCAGGTGCGTCCCTGCGTGAACCTGGAATCACTGATGCTGCG 339
QY 241 GTGGCCCTTATCTCTGCTGCGGCAAGCGGCAATGAGGCGGCACTGAGTCTCTGCG 300
DB 340 GTGGCCCTTATCTCTGCTGCGGCAAGCGGCAATGAGGCGGCACTGAGTCTCTGCG 399
QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 TTGTCGCGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 TTGTCGCGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTGCCAGGATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 447
DB 520 ACTGCCAGGATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 546

RESULT 13

US-09-878-281A-173
Sequence 173, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 173
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-173

Query Match 69.6%; Score 311; DB 3; Length 579;
Best Local Similarity 81.0%; Pred. No. 4.6e-86;
Matches 362; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGGGAACCTTCCGGTTCCTTTTCTATCTCTCTTG 60
DB 100 GACGGATTAATTAATGACAGGGAACCTTCCGGTTCCTTTTCTATCTCTCTTG 159
QY 61 GCACTCTCTGTCGCTGACTGTCCTTCCGGTTCGCAATTAATGACAGGGAACCTTCCGGG 120
DB 160 GCACTCTCTGTCGCTGACTGTCCTTCCGGTTCGCAATTAATGACAGGGAACCTTCCGGG 219
QY 121 ATCTACCACTGACCAATGATGAGGCGGCACTGAGCATATGTTATGAGGCGGCAACAC 180
DB 220 ATCTACCACTGACCAATGATGAGGCGGCACTGAGCATATGTTATGAGGCGGCAACAC 279
QY 181 ATCTTGACCTTCCAGGTGCGTCCCTGCGTGAACCTGGAATCACTGATGCTGCG 240
DB 280 ATCTTGACCTTCCAGGTGCGTCCCTGCGTGAACCTGGAATCACTGATGCTGCG 339
QY 241 GTGGCCCTTATCTCTGCTGCGGCAAGCGGCAATGAGGCGGCACTGAGTCTCTGCG 300
DB 340 GTGGCCCTTATCTCTGCTGCGGCAAGCGGCAATGAGGCGGCACTGAGTCTCTGCG 399
QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 TTGTCGCGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 TTGTCGCGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTGCCAGGATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 447
DB 520 ACTGCCAGGATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 546

RESULT 14

US-09-878-281A-181
Sequence 181, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 181
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: misc_feature
LOCATION: (152)..(152)
OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-181

Query Match 65.9%; Score 294.6; DB 3; Length 579;
Best Local Similarity 78.7%; Pred. No. 5.3e-81;
Matches 351; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGGGAACCTTCCGGTTCCTTTTCTATCTCTCTTG 60
DB 100 GACGGATTAATTAATGACAGGGAACCTTCCGGTTCCTTTTCTATCTCTCTTG 159
QY 61 GCACTCTCTGTCGCTGACTGTCCTTCCGGTTCGCAATTAATGACAGGGAACCTTCCGGG 120
DB 160 GCACTCTCTGTCGCTGACTGTCCTTCCGGTTCGCAATTAATGACAGGGAACCTTCCGGG 219
QY 121 ATCTACCACTGACCAATGATGAGGCGGCACTGAGCATATGTTATGAGGCGGCAACAC 180
DB 220 ATCTACCACTGACCAATGATGAGGCGGCACTGAGCATATGTTATGAGGCGGCAACAC 279
QY 181 ATCTTGACCTTCCAGGTGCGTCCCTGCGTGAACCTGGAATCACTGATGCTGCG 240

```
Db      280 ATATGACTTACACGAGGTGATACCCGCGTGAGAACCGGGAAGTTTGCGCTGCTGG 339
Qy      241 GTGGCCCTTACTCTTACCGGTGACGGCCATACATCGGCGACCGCTTGAATCTCTCGG 300
Db      340 GTATCTCTGACACCTTACTGTGGCTGCTCCCTACCTCGGGGCTCGCTTACGTCGCTACGG 399
Qy      301 AGTCATGTGATCTGATGTGGGGGCTGCGCACTGTTTCTCAGCCCTTTATCATCGGGGAT 360
Db      400 CGGCAATGTGATTTGATGTGGGTGGTGACACCACTTGTGCTTGCCCTTACGTGAGAC 459
Qy      361 TTGTGTGGCGGCTTGTCTTGGTTGTGATGATGTTTCTTTCGACCAAGACGCGCACTGG 420
Db      460 CTCTGTGAGAGGTCTTCTCTAGTGAGACAGATGTTTCACTTCCAGCGCGCGCACTGG 519
Qy      421 ACTGCCAGGATTTGCAATGTTCTAT 446
Db      520 ACCACTCAGGACTGCAACTGCTCAT 545
```

RESULT 15

```
US-09-878-281A-120
; Sequence 120, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-120
```

Query Match 65.6%; Score 293.4; DB 3; Length 574;

Best Local Similarity 78.5%; Pred. No. 1.3e-80;

Matches 351; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

```
Qy      1  GACGGGATCAATTAATGACAGAGGAACCTCCCGGTGCTCTTTTCTATCTCTCTTG 60
Db      100  GACGGGATTAATGACAGAGGAATCTTCCGGTTCCTCTTCTATCTCTCTTA 159
Qy      61  GCACCTCTCTGCTGCTGCTGACTGTTCCGCTTCGGCCATTAACTACCGCAACCTCGGGC 120
Db      160  GCACCTCTCTGCTGCTGCTGACTGTTCCGCGCTTCGGCGACACTACCGGAACATCTCGGGC 219
Qy      121  ATCAACACGTCACCAATGATCTGCCGGAATCGAGCATAGTTATGAGGCCGACACAC 180
Db      220  ATTTATCAAGTCACCAATGATCGCCGAATCTTATATAGTATGAAAGCTGACCATCAT 279
Qy      181  ATCTTGACCTTCCAGTTGCGTGCCTCGCGTGAAGACTGGGAATCAGTCAAGTTGCTGG 240
Db      280  ATCATGCACTTACCAAGGCTGTGCTTGGCTGAGAACCGGAAACACTCGCGCTGCTGG 339
Qy      241  GTGGCCCTTACTCTTACCGGTGACGAGCGCCATACATCGGCGACCGCTTGAATCTCTGCGG 300
Db      340  GTTCTTTTAAACCAACCACTGTGGCTGCCCCATATGTTGGCGCGCGCTCGAATCATGCGG 399
Qy      301  AGTCATGTGATCTGATGTGGGGGCTGCGCACTGTTTGTCTCAGCCCTTTATCATCGGGGAT 360
Db      400  CGGCACTGTGACTTATGTGTGGGTGCGCGCACCGTCTGCGCCCTGTATCATCGAGAC 459
Qy      361  TTGTGTGGCGGCTTGTCTTGGTTGTGATGTTTCTTTCGACCAAGACGCGCACTGG 420
Db      460  CTCTGTGAGAGGTCTTCTCTAGTGAGACAGATGTTTCACTTCCAGCGCGCGCACTGG 519
Qy      421  ACTGCCAGGATTTGCAATGTTCTATC 447
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Db 520 ACTACCAGGACTGCAACTGCTCTATC 546

Search completed: January 11, 2006, 04:37:54
Job time : 112.089 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075b-33
Sequence: 1 gacgggattcaattgcgaac.....aagatgcactgcctccatc 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapect 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	447	100.0	447	3	US-08-836-075A-33
2	384.6	86.0	447	3	US-08-836-075A-31
3	381.4	85.3	447	3	US-08-836-075A-35
4	377.4	84.4	447	3	US-08-836-075A-29
5	376.2	84.2	447	3	US-08-836-075A-37
6	333.4	74.6	574	3	US-09-878-281A-118
7	331.8	74.2	579	3	US-09-878-281A-187
8	328.6	73.5	579	3	US-09-878-281A-183
9	320.6	71.7	579	3	US-09-878-281A-167
10	320.6	71.7	579	3	US-09-878-281A-185
11	311	69.6	579	3	US-09-878-281A-169
12	303	67.8	579	3	US-09-878-281A-173
13	301.4	67.4	579	3	US-09-878-281A-171
14	299.8	67.1	579	3	US-09-878-281A-120
15	299.8	67.1	579	3	US-09-878-281A-175
16	290.2	65.2	579	3	US-09-878-281A-181
17	290.2	64.9	579	3	US-09-878-281A-177
18	287	64.2	574	3	US-09-878-281A-122
19	287	64.2	579	3	US-09-878-281A-189
20	282.2	63.1	579	3	US-08-836-075A-39
21	280.6	62.8	579	3	US-09-878-281A-179
22	246	55.0	576	2	US-08-086-428B-42
23	246	55.0	576	2	US-08-468-570-42
24	246	55.0	576	2	US-08-290-665A-42

25	246	55.0	576	3	US-08-466-601A-42	Sequence 42, Appl
26	246	55.0	576	6	PCT-US95-10398-42	Sequence 42, Appl
27	244.4	54.7	576	2	US-08-086-428B-43	Sequence 43, Appl
28	244.4	54.7	576	2	US-08-468-570-43	Sequence 43, Appl
29	244.4	54.7	576	2	US-08-290-665A-43	Sequence 43, Appl
30	244.4	54.7	576	3	US-08-466-601A-43	Sequence 43, Appl
31	244.4	54.7	576	6	PCT-US95-10398-44	Sequence 44, Appl
32	229.6	51.4	576	2	US-08-086-428B-44	Sequence 44, Appl
33	229.6	51.4	576	2	US-08-468-570-44	Sequence 44, Appl
34	229.6	51.4	576	3	US-08-290-665A-44	Sequence 44, Appl
35	229.6	51.4	576	3	US-08-466-601A-44	Sequence 44, Appl
36	229.6	51.4	576	6	PCT-US95-10398-44	Sequence 44, Appl
37	223.4	50.0	1018	2	US-08-444-818-151	Sequence 151, Appl
38	219.8	49.2	501	2	US-08-483-695-29	Sequence 29, Appl
39	219.8	49.2	501	2	US-07-965-285-29	Sequence 29, Appl
40	219.8	49.2	501	2	US-08-487-231-29	Sequence 29, Appl
41	219.8	49.2	501	3	US-09-201-912-29	Sequence 29, Appl
42	219.8	49.2	1019	3	US-08-444-818-153	Sequence 153, Appl
43	219.8	49.2	1019	3	US-08-444-818-154	Sequence 154, Appl
44	219.8	49.2	1539	2	US-08-470-426B-16	Sequence 16, Appl
45	219.8	49.2	1863	2	US-08-470-426B-13	Sequence 13, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-33
; Sequence 33, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-33

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 2e-133;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACGGGATTAATTAATGCAAGAGGAATCTTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
1 GACGGGATTAATTAATGCAAGAGGAATCTTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
121 ATCTATCATATACCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
121 ATCTATCATATACCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
181 ATCTGATCTCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
181 ATCTGATCTCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
241 GTGGCCCTTACCCCTACCATGCGAGCGCATACATCGGCGCAGCCTTGAATCTTGCGG 300
241 GTGGCCCTTACCCCTACCATGCGAGCGCATACATCGGCGCAGCCTTGAATCTTGCGG 300
301 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
301 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
361 TTGATGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
361 TTGATGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
421 ACCACCAAGATTGCAACTGCTCCATC 447
421 ACCACCAAGATTGCAACTGCTCCATC 447

RESULT 2
US-08-836-075A-31
Sequence 31, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-31

Query Match 86.0%; Score 384.6; DB 3; Length 447;
Best Local Similarity 91.3%; Pred. No. 2.2e-113;
Matches 408; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

1 GACGGGATTAATTAATGCAAGAGGAATCTTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
1 GACGGGATTAATTAATGCAAGAGGAATCTTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
121 ATCTATCATATACCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
121 ATCTATCATATACCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
181 ATCTGATCTCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
181 ATCTGATCTCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
241 GTGGCCCTTACCCCTACCATGCGAGCGCATACATCGGCGCAGCCTTGAATCTTGCGG 300
241 GTGGCCCTTACCCCTACCATGCGAGCGCATACATCGGCGCAGCCTTGAATCTTGCGG 300
301 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
301 AGTATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
361 TTGATGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
361 TTGATGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
421 ACCACCAAGATTGCAACTGCTCCATC 447
421 ACCACCAAGATTGCAACTGCTCCATC 447

RESULT 3
US-08-836-075A-35
Sequence 35, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-35

```

```

Query Match      85.3%; Score 381.4; DB 3; Length 447;
Best Local Similarity 90.2%; Pred. No. 2.3e-112;
Matches 403; Conservative 4; Mismatches 40; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTAATGCAAGGGAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60
   |||||
DB 1 GACGGGATTAATTAATGCAAGGGAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60

QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
   |||||
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

QY 121 ATCTATCATATCACAAGGAGTCCGCAATCAAGCATAGTGTAGAGGCGGACCATCAC 180
   |||||
DB 121 ATCTATCATATCACAAGGAGTCCGCAATCAAGCATAGTGTAGAGGCGGACCATCAC 180

QY 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGGAATCAAGTTCAGTTGCTG 240
   |||||
DB 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGGAATCAAGTTCAGTTGCTG 240

QY 241 GTGGCCCTTACCCCTACCATGCGAGCGCATATACCGGCGCGCTTGAATCTCCCTGCG 300
   |||||
DB 241 GTGGCCCTTACCCCTACCATGCGAGCGCATATACCGGCGCGCTTGAATCTCCCTGCG 300

QY 301 AGTATGTGATCTGATGTGAGGGGCGGCGCATCTGCTTACGCTTATATGAGGAGAT 360
   |||||
DB 301 AGTATGTGATCTGATGTGAGGGGCGGCGCATCTGCTTACGCTTATATGAGGAGAT 360

QY 361 TTGTGTGGCGGTGCTTCTGTTGTCAGATGTTCTTCCGACCAAGCGGCGCATCTG 420
   |||||
DB 361 TTGTGTGGCGGTGCTTCTGTTGTCAGATGTTCTTCCGACCAAGCGGCGCATCTG 420

QY 421 AGCAACCAAGATGCAATGCTCTCATC 447
   |||||
DB 421 ACTACCCAGATGCAATGTTCCATC 447

```

```

RESULT 4
US-08-836-075A-29
; Sequence 29, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:

```

```

APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-29

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Query Match      84.4%; Score 377.4; DB 3; Length 447;
Best Local Similarity 89.9%; Pred. No. 4.4e-111;
Matches 402; Conservative 2; Mismatches 43; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTAATGCAAGGGAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60
   |||||
DB 1 GACGGGATTAATTAATGCAAGGGAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60

QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
   |||||
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

QY 121 ATCTATCATATCACAAGGAGTCCGCAATCAAGCATAGTGTAGAGGCGGACCATCAC 180
   |||||
DB 121 ATCTATCATATCACAAGGAGTCCGCAATCAAGCATAGTGTAGAGGCGGACCATCAC 180

QY 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGGAATCAAGTTCAGTTGCTG 240
   |||||
DB 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGGAATCAAGTTCAGTTGCTG 240

QY 241 GTGGCCCTTACCCCTACCATGCGAGCGCATATACCGGCGCGCTTGAATCTCCCTGCG 300
   |||||
DB 241 GTGGCCCTTACCCCTACCATGCGAGCGCATATACCGGCGCGCTTGAATCTCCCTGCG 300

QY 301 AGTATGTGATCTGATGTGAGGGGCGGCGCATCTGCTTACGCTTATATGAGGAGAT 360
   |||||
DB 301 AGTATGTGATCTGATGTGAGGGGCGGCGCATCTGCTTACGCTTATATGAGGAGAT 360

```


QY 421 ACCACCAAGATTGCACTGCTCCATC 447
 |||||
 DB 520 ACTACGAGAGCTGCAATTGTTCCATC 546

RESULT 7 US-09-878-281A-187

; Sequence 187, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 187
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-187

Query Match 74.2%; Score 331.8; DB 3; Length 579;
 Best Local Similarity 83.9%; Pred. No. 2.2e-96;
 Matches 375; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTCCTCTTTCTATCTTCCTCTG 60
 DB 100 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTCCTCTTTCTATCTTCCTCTG 159
 QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATCTATCATATCAACCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
 DB 220 ATCTATCATATCAACCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 279
 QY 181 ATCTGATCTCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 280 ATCTGATCTCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
 QY 241 GTGGCCCTTACCCCTTACCATGCGCCGATACATGCGCGACCGCTTGAGTCTTGC 300
 DB 340 GTGGCCCTTACCCCTTACCATGCGCCGATACATGCGCGACCGCTTGAGTCTTGC 399
 QY 301 AGTCATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 DB 400 AGTCATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTGTTGTCGCGTGGCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 420
 DB 460 CTGTCGCGTGGCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 519
 QY 421 ACCACCAAGATTGCACTGCTCCATC 447
 |||||
 DB 520 ACTACGAGAGCTGCAATTGTTCCATC 546

RESULT 8 US-09-878-281A-183

; Sequence 183, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 183
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-183

Query Match 73.5%; Score 328.6; DB 3; Length 579;
 Best Local Similarity 83.4%; Pred. No. 2.3e-95;
 Matches 373; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTCCTCTTTCTATCTTCCTCTG 60
 DB 100 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTCCTCTTTCTATCTTCCTCTG 159
 QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATCTATCATATCAACCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
 DB 220 ATCTATCATATCAACCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 279
 QY 181 ATCTGATCTCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 280 ATCTGATCTCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
 QY 241 GTGGCCCTTACCCCTTACCATGCGCCGATACATGCGCGACCGCTTGAGTCTTGC 300
 DB 340 GTGGCCCTTACCCCTTACCATGCGCGGCTTACATGCTGCTGCTGCTGCTGCTGCTG 399
 QY 301 AGTCATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 DB 400 AGTCATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTGTTGTCGCGTGGCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 420
 DB 460 CTGTCGCGTGGCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 519
 QY 421 ACCACCAAGATTGCACTGCTCCATC 447
 |||||
 DB 520 ACCACGAGAGCTGCAATTGTTCTATC 546

RESULT 9 US-09-878-281A-167

; Sequence 167, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 167
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-167

Query Match 71.7%; Score 320.6; DB 3; Length 579;
 Best Local Similarity 82.3%; Pred. No. 8.6e-93;
 Matches 368; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTCCTCTTTCTATCTTCCTCTG 60
 DB 100 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTCCTCTTTCTATCTTCCTCTG 159
 QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

Db 160 GCGCTCCCTCTGTGTGCTGACCTGTTTCCACATCGCGCGTTAACTCATCGGAAGCTTCGGGC 219
 QY 121 ATCTATCATATCATCAACGACGACTGGCCCGGAATTCAGACATAGTGTATGAGAGCCGACATCAC 180
 Db 220 ATTATATCATATCAACCAATGACTGTCCCGAATGCMAAGCATATGTTACGAGACCGGAANAATCAC 279
 QY 181 ATCTTGCATCTCCAGAGTTGCGTGCCCTGCGCTGAGAGTGGGAAATCACTCGAGTTGCTGG 240
 Db 280 ATCTTACACCTCCAGAGGTGCGTACCCGTGTGAGAGACTGGGAACCACTCGCGGTGTGG 339
 QY 241 GTGGCGCTTACCCCTTACCATGCGACGCGCATATCGGCGCACCGCTTGAATCCTTTCGGG 300
 Db 340 GTGGCGCTTACCTCCACAGTAGCGTGGCCATATCGCGGCTGCTCGCTTGAACCTTTCGGG 399
 QY 301 AGTCATGTGGAATTCGATGTGTGGGGGCGGCGCACTGTCTTTCAGGCCCTTATATCGGGGAT 360
 Db 400 CGTCATGTGGACCTGATGTAGTGCTGCGACCAATGTTCCGCGCTTACATCGGCGAC 459
 QY 361 TTGTGTGGCGGTGCGTCTTGGTGTGATGATGTTCTTTCGACACCGGCGCATCTGG 420
 Db 460 TTGTGCGGTGCTTAATTCCTGTGTGGGCCAATATGTACCTTCCAACCGGACGTCACTGG 519
 QY 421 ACCACCCGAGATTTGCACTGCGTCCATC 447
 Db 520 ACCACTCAGGACTGCATTTGTTCAATC 546

```

RESULT 10
US-09-878-281A-185
; Sequence 185; Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-185

Query Match      71.7%; Score 320.6; DB 3; Length 579;
Best Local Similarity 82.3%; Pred. No. 8.6e-93;
Matches 368; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

OY      1  GACGGGATTAATTATGCAACAGGGAATCTTCCCGGTGCTCTTTCTATCTTCTCTTG 60
Db      100  GACGGGATCAATATGCAACAGGGAATCTTCCCGGTCTCTTTCTATCTTACTCTTGG 159

OY      61  GCACTTCTCTGTCGCTGACTGTCCCGGTTGCGGCATTACTACCAACACCTCGGAC 120
Db      160  GCATCTTCTCTGTGCTGACTGTTCCTCCACTGCGGCATTCACATGCAATGCTCGGAC 219

OY      121  ATCTATCATATCAACCAAGACTGCCGGAATTCAMGACATAGTGTATGAGGCCGACCATCA 180
Db      220  GTCTACCAAGTCACCAATGACTGCCGGAATTCAGACATAGTGTATGAGGCGACCAACAC 279

OY      181  ATCTTGCAATCTCCAGGTTGCGTGCCTTCGCGTGAAGAGTGGGAAATCACTCGAGTTGCTGG 240
Db      280  ATCTCAACCTTTCAGGGGTGCTTACCTCTGTGTGAGAGTGGGAAATCACTCGAGTTGCTGG 339

OY      241  GTGGCCCTTACCCCTACCATCGCAGCGGCATCATCTGCGCGCACCGCTTGAAGTCTTGGCG 300
Db      340  GTGGCCCTCTCTCCCAACCGTGGCGGCGCCTTACATCGGTGCTCCAGCTTGAATCTTCCGG 399

OY      301  AGTCATGTGATCTGATGGTGGGGCGGCGCACTGTCTGTTCAGCCCTTTACATCGGGGAT 360
Db      400  AGTCATGTGATCTGATGGTGGGGCGGCGCACTGTCTGTTCAGCCCTTTACATCGGGGAT 459

```

D_b 400 AGACAGCTGGACATCATGTTGGGGCGGTCTTACTGTGTGCTCCGCTCTCTATTATTTGGGGAC 459
Q_y 361 TTGTGTGGCGGCGTCGCTCTTGTTGGTGGTAGAAGTTCTCTTTCCGAACAACGGCQCACATGG 420
D_b 460 TTTGTGTGGTGGCGGTATTTCTTTGGTTGGTCAAGATGTTTTCTTCCGGCACACAGCGCACTGG 519
Q_y 421 ACCACCACAAAGATTGCACACTGCTCCATC 447
D_b 520 ACTACGACAGACTGCATATTGTTCATC 546

```

RESULT 11
US-09-878-281A-169
; Sequence 169, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
;
; LENGTH: 579
;
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-169

```

```

Query Match          99.6%; Score 311, DB 3; Length 579;
Best Local Similarity 81.0%; Pred. No. 18-89;
Matches 362; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

QY      1  GACGGGATTAAATTATGCAACAGGGAATCTTCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB      100 GACGGGATCACTACGCAACAGGGAATCTCCCGTTGCTCTTTCTATCTTCTCTTG 159
QY      61  GCACCTTCTCTGTCGCTGACTGTCGCCGCTTGCGGCATTAACTACACACACTCGGCGC 120
DB      160 GCACCTTCTCTGTCGCTCACTGTTCCCGCGTGGCGGTAACTATCGCAATGCTTCGGGC 219
QY      121  ATCTATCATATGACACACAGCACTGCCCCGAATTCAAGCATAGTGATGAGGCCGACATCAC 180
DB      220 GTTTATCATATCAACCAACAGACTGCCGAATGCAGAGATTAATGTATGAGACCAATCAC 279
QY      181  ATCTTGACATCTCCCAAGCTTGCGTCCCTCGCTGAGAGTGGGGAATCACTGAGTTTCTCG 240
DB      280 ATCTTACACCTCCCAAGGTCGCGTATCCCTGTGTAAAGACCGGGAACAGTGGCGGTGTTGG 339
QY      241  GTGGCCCTTACCCCTTCCATCGCAGCGCCATACATCGGCGCCACCGCTTGAGTCTTGCGG 300
DB      340 GTGGCCCTTACTCTCCACAGTGCAGTGCCTTAAAGTGGGTGCTCCGCTCTGAGCCCTTGCGG 399
QY      301  AGTCATGTGATCTGATGAGTGGGGGCGGCCACTGTCTGTTCAAGCCCTTTATCATCGGGAT 360
DB      400 CGCAGTGTGACTGATGAGTGAAGGTGCTGCACACGTGTGCTCCGCCCTTAACTAGTCGGCGAC 459
QY      361  TTGTGTGCGCGGTGCGCTTCTTGTGTTGTCAGATGTTCTCTTTCCGACACAGCGGCACATCG 420
DB      460 CTGTGCGGCGGTATATCTTGTGTGAGGCAAAATGTCACTTCCAAACCGCGACGCGCATCG 519
QY      421  ACCACCCAGATTGCAACTGCTCCATC 447
DB      520 ACGACCCAGACTGTATATTGTTCCATC 546

RESULT 12
US-09-878-281A-173
; Sequence 173, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.

```


Job time : 112.089 secs

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Db      340  GTTCTTTAACCACCCAGTGGCTGCCCTTAATGTGGCGCGCGCTGAACTCATGG 399
Qy      301  AGTCATGTGATCTGATGATGGGGCGGCCACTGTCTGTTTACGCCCTTTATCATGGGAT 360
Db      400  CGGACAGTGGACTTAATGGTGGTGGCCGACCGTCTGCTGGCCCTGTACATGGAGAC 459
Qy      361  TTGATGGCGGTGGCTTCTTGTGTGATGTTCTTTCCGACCACGGCGCCACTGG 420
Db      460  CTTTGGGAGGTGTCTTCTTGATGGGAGATTTCACTTCCGGCCGCGCCCATTTGG 519
Qy      421  ACCACCCAGATGCAACTGCTCATC 447
Db      520  ACTACCCAGAGCTCAACTGCTTATC 546
```

```
RESULT 15
US-09-878-281A-175
; Sequence 175, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis, and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 175
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-175
```

```
Query Match      67.1%; Score 299.8; DB 3; Length 579;
Best Local Similarity 79.4%; Pred. No. 4.1e-86;
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
```

```
Qy      1  GACGGGATTAATTATGCAACGAGGAATTTCCCGGTGCTCTTTCTATCTTCTCTG 60
Db      100  GACGGGATTAATTATGCAACGAGGAATTTCCCGGTGCTCTTTCTATCTTCTCTA 159
Qy      61  GCACCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db      160  GCACCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
Qy      121  ATCTATCATATACCAACGAGCTGCCGAATTCAGCATAGTATGAGCCGACCATCA 180
Db      220  ATTATACAGTACCAATGAGCTGCCGAATTCAGTATAGTATGAACTGACCATCA 279
Qy      181  ATCTTGATCTCCGAGTGTGGTCCCTGCGTGAAGTGGGGAATCAGTCGAGTTGCTG 240
Db      280  ATCATGATCTACCAAGGTGTGGTCTTGGTGAACCGGAAACACTCTCGCTGCTGG 339
Qy      241  GTGGCCCTTACCCCTACCATGCAAGCGCATATACATCGGCGACCGCTTGAAGCTTGG 300
Db      340  GTTCTTTAACCACCACTGTGGCTGCCCTATATGTGGCGCGCTCGAATTCATGGG 399
Qy      301  AGTCATGTGATCTGATGATGGGGCGGCACTGTCTGTTCAAGCCCTTTACATCGGGAT 360
Db      400  CGGACAGTGGACTTAATGATGGGTGCCGCAACCGTCTGCTGCGCCCTGTACATCGAGAC 459
Qy      361  TTGATGGCGGTGGCTTGTGTGTGATGTTCTTTCCGACCAAGGCGGCACTGG 420
Db      460  CTTTGGGAGGTGTCTTCTTGATGGGAGATTTCACTTCCGGCCGCGCCCATTTGG 519
Qy      421  ACCACCCAGATGCAACTGCTCATC 447
Db      520  ACTACCCAGAGCTCAACTGCTTATC 546
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Search completed: January 11, 2006, 04:37:55

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-35

Perfect score: 447
Sequence: 1 gaaggatcatatgcacac.....aggatgcattgttcacac 447

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/1 COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H COMB.seq: *
6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq: *
7: /cgn2_6/ptodata/1/ina/PP COMB.seq: *
8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	445.4	99.6	447	3	US-08-836-075A-35
2	387.4	86.7	447	3	US-08-836-075A-37
3	383	85.7	447	3	US-08-836-075A-31
4	381.4	85.3	447	3	US-08-836-075A-33
5	379	84.8	447	3	US-08-836-075A-29
6	341.4	76.4	574	3	US-09-878-281A-118
7	339.8	76.0	579	3	US-09-878-281A-187
8	333.4	74.6	579	3	US-09-878-281A-183
9	330.2	73.9	579	3	US-09-878-281A-185
10	325.4	72.8	579	3	US-09-878-281A-167
11	311	69.6	579	3	US-09-878-281A-169
12	301.4	67.4	579	3	US-09-878-281A-171
13	299.8	67.1	579	3	US-09-878-281A-173
14	299.4	67.0	579	3	US-09-878-281A-181
15	293.4	65.6	447	3	US-08-836-075A-39
16	291.8	65.3	574	3	US-09-878-281A-120
17	291.8	65.3	574	3	US-09-878-281A-175
18	279	62.4	579	3	US-09-878-281A-122
19	272.6	61.0	574	3	US-09-878-281A-179
20	272.6	59.9	579	3	US-09-878-281A-189
21	267.8	59.9	579	3	US-09-878-281A-179
22	252.8	56.6	576	2	US-08-468-428B-43
23	252.8	56.6	576	2	US-08-468-570-43
24	252.8	56.6	576	2	US-08-290-665A-43

25	252.8	56.6	576	3	US-08-466-601A-43	Sequence 43, Appl
26	252.8	56.6	576	6	PCT-US95-10398-43	Sequence 43, Appl
27	250.6	56.1	576	2	US-08-086-428B-42	Sequence 42, Appl
28	250.6	56.1	576	2	US-08-468-570-42	Sequence 42, Appl
29	250.6	56.1	576	2	US-08-290-665A-42	Sequence 42, Appl
30	250.6	56.1	576	3	US-08-466-601A-42	Sequence 42, Appl
31	250.6	56.1	576	6	PCT-US95-10398-44	Sequence 42, Appl
32	227.2	50.8	576	2	US-08-086-428B-44	Sequence 44, Appl
33	227.2	50.8	576	2	US-08-468-570-44	Sequence 44, Appl
34	227.2	50.8	576	2	US-08-290-665A-44	Sequence 44, Appl
35	227.2	50.8	576	3	US-08-466-601A-44	Sequence 44, Appl
36	227.2	50.8	576	6	PCT-US95-10398-44	Sequence 44, Appl
37	223	49.9	9365	3	US-09-827-688-7	Sequence 7, Appl1
38	222.2	49.7	1018	3	US-08-444-818-151	Sequence 151, App
39	221.4	49.5	1019	3	US-08-444-818-153	Sequence 153, App
40	221.4	49.5	9401	2	US-08-432-693-1	Sequence 1, Appl1
41	221.4	49.5	9416	3	US-08-811-566-19	Sequence 19, Appl
42	221.4	49.5	9416	3	US-09-034-756-19	Sequence 19, Appl
43	221.4	49.5	9599	3	US-09-014-416-2	Sequence 2, Appl1
44	221.4	49.5	9646	3	US-08-811-566-1	Sequence 1, Appl1
45	221.4	49.5	9646	3	US-09-034-756-1	Sequence 1, Appl1

ALIGNMENTS

RESULT 1
US-08-836-075A-35
; Sequence 35, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-35

Query Match 99.6%; Score 445.4; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 1,1e-110; Mismatches 0; Indels 0; Gaps 0;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGCAAGGAAATATCCCGTTCTCTTTCTATCTCTCTTTG 60
DB 1 GACGGATCAATTAATGCAAGGAAATATCCCGTTCTCTTTCTATCTCTTTG 60
QY 61 GCACCTCTCTGTCGTCTGACTGTCCTCCGCTTCGCGCACTAATGCAAGTCCTCGGC 120
DB 61 GCACCTCTCTGTCGTCTGACTGTCCTCCGCTTCGCGCACTAATGCAAGTCCTCGGC 120
QY 121 ATCTACCATGTCACCAATGATGCGCCGAATTCAGCATAGTATGAGGCGGACCATCAC 180
DB 121 ATCTACCATGTCACCAATGATGCGCCGAATTCAGCATAGTATGAGGCGGACCATCAC 180
QY 181 ATCTAGCACTTCAGGTCGTCGCTCCCTGCGTGAAGTGGGAAACAGTCAGCTGCTGG 240
DB 181 ATCTAGCACTTCAGGTCGTCGCTCCCTGCGTGAAGTGGGAAACAGTCAGCTGCTGG 240
QY 241 GTGGCCCTTACCCCTACCGTCGACGCGCATACACCGCGCGCTTGAATCCCTGCGG 300
DB 241 GTGGCCCTTACCCCTACCGTCGACGCGCATACACCGCGCGCTTGAATCCCTGCGG 300
QY 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 360
DB 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 360
QY 361 TTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
DB 361 TTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
QY 421 ACTACCCAGGATTCGCAATGTTCCATC 447
DB 421 ACTACCCAGGATTCGCAATGTTCCATC 447

RESULT 2

US-08-836-075A-37
Sequence 37, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-37

Query Match 86.7%; Score 387.4; DB 3; Length 447;
Best Local Similarity 90.8%; Pred. No. 2,4e-112;
Matches 406; Conservative 5; Mismatches 36; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGCAAGGAAATATCCCGTTCTCTTTCTATCTCTCTTTG 60
DB 1 GACGGATTAATTAATGCAAGGAAATATCCCGTTCTCTTTCTATCTCTCTTTG 60
QY 61 GCACCTCTCTGTCGTCTGACTGTCCTCCGCTTCGCGCACTAATGCAAGTCCTCGGC 120
DB 61 GCACCTCTCTGTCGTCTGACTGTCCTCCGCTTCGCGCACTAATGTCCTCGGC 120
QY 121 ATCTACCATGTCACCAATGATGCGCCGAATTCAGCATAGTATGAGGCGGACCATCAC 180
DB 121 ATCTACCATGTCACCAATGATGCGCCGAATTCAGCATAGTATGAGGCGGACCATCAC 180
QY 181 ATCTAGCACTTCAGGTCGTCGCTCCCTGCGTGAAGTGGGAAACAGTCAGCTGCTGG 240
DB 181 ATCTAGCACTTCAGGTCGTCGCTCCCTGCGTGAAGTGGGAAATCAATCACTGCTGG 240
QY 241 GTGGCCCTTACCCCTACCGTCGACGCGCATACACCGCGCGCTTGAATCCCTGCGG 300
DB 241 GTGGCCCTTACCCCTACCGTCGACGCGCATACATGCGCGCGCATGAGTCTTACCG 300
QY 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 360
DB 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 360
QY 361 TTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
DB 361 CTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
QY 421 ACTACCCAGGATTCGCAATGTTCCATC 447
DB 421 ACTACCCAGGATTCGCAATGTTCCATC 447

RESULT 3

US-08-836-075A-31
Sequence 31, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-31

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Query Match      85.7%; Score 383; DB 3; Length 447;
Best Local Similarity 90.4%; Pred. No. 6e-111;
Matches 404; Conservative 4; Mismatches 39; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGGAATATTCGCGTTGCTCTTTCTATCTTCTTCTTGG 60
DB 1 GACGGGATCAATTATGCAACAGGGAATATTCGCGTTGCTCTTTCTATCTTCTTCTTGG 60
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 180
DB 121 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 180
QY 181 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 240
DB 181 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 240
QY 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
DB 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
QY 301 AGTCATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
DB 301 AGTCATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
QY 361 TTGTGTGGCGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
DB 361 TTGTGTGGCGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
QY 421 ACTACCAAGATGCAATGTTTCATC 447
DB 421 ACTGCCAGATGCAATGTTTCATC 447

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RESULT 4
US-08-836-075A-33
; Sequence 33, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:

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```

APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKER
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-33

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Query Match      85.3%; Score 381.4; DB 3; Length 447;
Best Local Similarity 90.2%; Pred. No. 1.9e-110;
Matches 403; Conservative 4; Mismatches 40; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGGAATATTCGCGTTGCTCTTTCTATCTTCTTCTTGG 60
DB 1 GACGGGATCAATTATGCAACAGGGAATATTCGCGTTGCTCTTTCTATCTTCTTCTTGG 60
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 180
DB 121 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 180
QY 181 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 240
DB 181 ATCTACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATGTCACCATG 240
QY 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
DB 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
QY 301 AGTCATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
DB 301 AGTCATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360

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Accession	Sequence	Length
Oy	361 TTGTGTGGGGCGCTGTTCTTTGGTGGGAGATGTTCTCTTTTGAGCTGGGGCCACTG	420
Db	361 TTGTGTGGGGCGGCGCTTCTTGGTGGGAGATGTTCTTTTCCGACCAGGGCGCACTGG	420
Oy	421 ACTACCAGAGATTGCATTGTTCCATC	447
Db	421 ACCACCAGAGATTGCAACTGCTCCATC	447

RESULT 5

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: Sequence 29, Application US/08836075A
: Patent No. 6180768
:
: GENERAL INFORMATION:
: APPLICANT: MARTENS, GEERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: TITLE OF INVENTION: AGENTS
: NUMBER OF SEQUENCES: 207
:
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
:
: CITY: HOUSTON
: STATE: TEXAS
: COUNTRY: USA
: ZIP: 77210-4433
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Microsoft Word 6.0 / ASCII text output
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/836,075A
: FILING DATE: 21 Apr 1997
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/EP95/04155
: FILING DATE: 23 Oct 1995
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 94870166.9
: FILING DATE: 21 Oct 1994
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 95870076.7
: FILING DATE: 28 Jun 1995
:
: ATTORNEY/AGENT INFORMATION:
: NAME: KAMMERER, PATRICIA A.
: REGISTRATION NUMBER: 29,775
: REFERENCE/DOCKET NUMBER: INNS:004
: INFORMATION FOR SEQ ID NO: 29:
:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 447 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
:
: MOLECULE TYPE: cDNA
:
: HYPOTHETICAL: NO
:
: ANTI-SENSE: NO
:
: US-08-836-075A-29

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Query Match	84.8%;	Score 379;	DB 3;	Length 447;
Best Local Similarity	89.5%;	Pred. No. 1.1e-109;		
Matches 400; Conservative	6;	Mismatches 41;	Indels 0;	Gaps 0;

QY 1 GACGGATCAATTATGSCAACAGGAAATATTCGCCGTTGCTCYTTTCTATCTTCCTTYYG 60
 Db 1 GACGGATCAATTATGSCAACAGGAAACCTCCCGTTGCTCTTTTCTATCTTCCTTGG 60
 QY 61 GCACTCTCTCGGTGTACTGACCCCGCTTGCGGCCACTACTATGSCAAGTCTGGGGC 120
 Db 61 GCACTCTCTCGGCTGACTGATCCCGCTTGCGGCCACTACTATGSCAATGCTCGGGC 120
 QY 121 ATCTACATGTCACCAATGACTCCCGAATTCAAGCATAGTATGAGGCGCAACATCAC 180

Db	121	ATTTACTATGTACCAATGATTTGGCCGAATTGACAGATATGTATATGAGGCCACCATCAC	180
QY	181	ATCTTAGCACTTCCAGGTGGCGTGCCTCGCGTGAAGATGSGGAAACCATGTACAGCTGCTGG	240
Db	181	ATCTTGCACTCTCCAGGTGGCGTGCCTCGCGTGAAGAGAGAGGGAATATAGTACAGTTCCTGG	240
QY	241	GTGGCCCTTACCCCTACCGGTGCGACAGGCATACACGCGGCGCCGCTTAGTGCCTGCGG	300
Db	241	GTAGCCCTTACCCCTACCGGTGCGACAGGCATATCATGTGGCGGCGCATTTAGTGTCTACGG	300
QY	301	AGTCATGTGGAATGTGATGTGSGAGCTGCGCACTGTTTGTTCACGCTTTTACATCGGGGAY	360
Db	301	AGTCATGTGGAATGTGATGTGSGAGCGCGCACCTGTTTGTTCAGCCCTTTACATCGGGGAT	360
QY	361	TGTGTGCGCGGCTTGTCTTGTGGTGGTGCAGATGTTCTCTTTCAGGCGCTGCGGCCACTGG	420
Db	361	TTRTGTGGGCGTGTGTCTTCTTCTAGTCGSGTCAGATGTTCTCTTTCGACCAAGGGCGCACTGG	420
QY	421	ACTACCCAGAGATTCGATTTGTTCCATC	447
Db	421	ACTACTCAAGATTCGATTTGTTCCATC	447

RESULT 6

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US-09-878-281A-118      ; US-09-878-281A-118
; Sequence 118, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Imogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 118
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-118

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Query Match	76.4%;	Score 341.4;	DB 3;	Length 574;
Best Local Similarity	84.6%;	Pred. No. 9.3e-8;		
Matches 378; Conservative	4;	Mismatches 65;	Indels 0;	Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGGAAATATCCCGGTGCTCTTTTCTATCTCTCTTTG 60
 |||||
 Db 100 GACGGGATCAATTATGCGACAGGGAATCTCCCGGTGCTCTTCTCTATCTCTCTTTG 159
 |||||
 QY 61 GCACCTTCCTCGTGTCTGACGTGTCCCGCGTTTGCGGCATCACTATGCGCAACGCTGTGGGC 120
 |||||
 Db 160 GCACCTCTTTCGTGTCTGACGTGTCCCGACCTGTGGCGCATCATGCGCAATGCTGTGGGC 219
 |||||
 QY 121 ATCTACCATGTGCACCAATGACTGCTCCCGAATTCAAGCATATGATGATGAGGCCGACATCAC 180
 |||||
 Db 220 ATCTATCAACATCAACCAATGACTGCTCCCGAATCTGAGCATATGATGATGAGACCGAGCAAC 279
 |||||
 QY 181 ATCTTAGCACTTCCAGGTTGCTGCTGCCCTGCGTAGAGTGGGGAAACCATGCACGCTGTGG 240
 |||||
 Db 280 ATCTTACACCTCTCCAGGGGTGTTCACCTTCCGTGAGGGGTGTGGGAATAGTCACCGCTGTGG 339
 |||||
 QY 241 GTGGGCGCTTACCCCTACCGCTGCGAGCGGCATCACCGCGCGCGCGCTTGATGCTCCGTGGC 300
 |||||
 Db 340 GTGGCGCTTCACTCCACCGGTGGCGGCGCTTACATGTGGCGCTCCGCTTGAATCCCTCCGG 399
 |||||
 QY 301 AGTCATGTGGAATCTGAATGTGTGGAGAGCTGCACCTGTTTGTTCAGCCCTTTACATGCGGGAAV 360
 |||||
 Db 400 AGTCATGTGGAATCTGAATGTGTGGAGAGCTGCACCTGTTTGTTCATCATCGGAGAAC 459
 |||||
 QY 361 TTGTGTGGCGGCTGTGTCTTGTTGTGTGATGAGATGTTCTTTTCAGGCTGGCGGCCACTGG 420
 |||||
 Db 460 CTGTGCGGTGGGGATTTCTGTGTGTGTGATGAGATGTTCTTTTCCAGCGCGGGCGCCACTGG 519
 |||||

Qy 421 ACTACCGAGATTCGAATGTTCCATC 447
 Db 520 ACTACGAGAGACTGCAATGTTCCATC 546

RESULT 7

US-09-878-281A-187
 ; Sequence 187, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 187
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-187

Query Match 76.0%; Score 339.8; DB 3; Length 579;
 Best Local Similarity 84.3%; Pred. No. 3e-97;
 Matches 377; Conservative 4; Mismatches 66; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATATATGCAACAGGAAATATCCGGTGTCTCTTTCTATCTCTTTTG 60
 Db 100 GACGGGATCAATATATGCAACAGGAAATCTCCGGTGTCTCTTTCTATCTCTTTTG 159
 Qy 61 GCACTTCTCTGCTGTGACTGTCTCCCGCTTCGGCCACTATCTATCGAAGTCTCGGGC 120
 Db 160 GCACTTCTCTGCTGTGACTGTCTCCCGCTTCGGCCACTATCTATCGAAGTCTCGGGC 219
 Qy 121 ATCTACATGTCACCAATGATCTGCCCGAATCAAGCATATGATGAGGCCGACCATCAC 180
 Db 220 ATCTATCATCATCAACATGATCTGCCCGAATCAAGCATATGATGAGGCCGACCATCAC 279
 Qy 181 ATCTTACGACTTCGAGGTGGTGGTCCCTGCTGAGAGTGGGGAAACAAGTCAGCTGTGG 240
 Db 280 ATCTTACGACTTCGAGGTGGTGGTCCCTGCTGAGAGTGGGGAAACAAGTCAGCTGTGG 339
 Qy 241 GTGGCCCTTACCCCTTACCGTGTGACGCGCATACACGGGGCGCGCTTGAATCCCTCGG 300
 Db 340 GTGGCCCTTACCCCTTACCGTGTGACGCGCATACACGGGGCGCGCTTGAATCCCTCGG 399
 Qy 301 AGTCATGTGATCTGATGATGGAGCTGACCTGTTTTCAGCCCTTTACATCGGGGAY 360
 Db 400 AGTCATGTGATCTGATGATGGAGCTGACCTGTTTTCAGCCCTTTACATCGGGGAY 459
 Qy 361 TTGTGTGGCGGCTTGTCTTGTGTGTGATGATGTTCTTTTTCAGCTCGGCGCACCTGG 420
 Db 460 CTGTGGCGGCTTGTCTTGTGTGTGATGATGTTCTTTTTCAGCTCGGCGCGCACCTGG 519
 Qy 421 ACTTACCGAGATTCGAATGTTCCATC 447
 Db 520 ACTTACCGAGATTCGAATGTTCCATC 546

RESULT 8

US-09-878-281A-183
 ; Sequence 183, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12

NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 183
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-183

Query Match 74.6%; Score 333.4; DB 3; Length 579;
 Best Local Similarity 83.4%; Pred. No. 3.1e-95;
 Matches 373; Conservative 4; Mismatches 70; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATATATGCAACAGGAAATATCCGGTGTCTCTTTCTATCTCTTTTG 60
 Db 100 GACGGGATCAATATATGCAACAGGAAATCTCCGGTGTCTCTTTCTATCTCTTTTG 159
 Qy 61 GCACTTCTCTGCTGTGACTGTCTCCCGCTTCGGCCACTATCTATCGAAGTCTCGGGC 120
 Db 160 GCACTTCTCTGCTGTGACTGTCTCCCGCTTCGGCCACTATCTATCGAAGTCTCGGGC 219
 Qy 121 ATCTACATGTCACCAATGATCTGCCCGAATCAAGCATATGATGAGGCCGACCATCAC 180
 Db 220 ATCTATCATCATCAACATGATCTGCCCGAATCAAGCATATGATGAGGCCGACCATCAC 279
 Qy 181 ATCTTACGACTTCGAGGTGGTGGTCCCTGCTGAGAGTGGGGAAACAAGTCAGCTGTGG 240
 Db 280 ATCTTACGACTTCGAGGTGGTGGTCCCTGCTGAGAGTGGGGAAACAAGTCAGCTGTGG 339
 Qy 241 GTGGCCCTTACCCCTTACCGTGTGACGCGCATACACGGGGCGCGCTTGAATCCCTCGG 300
 Db 340 GTGGCCCTTACCCCTTACCGTGTGACGCGCATACACGGGGCGCGCTTGAATCCCTCGG 399
 Qy 301 AGTCATGTGATCTGATGATGGAGCTGACCTGTTTTCAGCCCTTTACATCGGGGAY 360
 Db 400 AGTCATGTGATCTGATGATGGAGCTGACCTGTTTTCAGCCCTTTACATCGGGGAY 459
 Qy 361 TTGTGTGGCGGCTTGTCTTGTGTGTGATGATGTTCTTTTTCAGCTCGGCGCACCTGG 420
 Db 460 CTGTGGCGGCTTGTCTTGTGTGTGATGATGTTCTTTTTCAGCTCGGCGCGCACCTGG 519
 Qy 421 ACTTACCGAGATTCGAATGTTCCATC 447
 Db 520 ACTTACCGAGATTCGAATGTTCCATC 546

RESULT 9

US-09-878-281A-185
 ; Sequence 185, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 185
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-185

Query Match 73.9%; Score 330.2; DB 3; Length 579;
 Best Local Similarity 83.0%; Pred. No. 3.2e-94;
 Matches 371; Conservative 4; Mismatches 72; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATATATGCAACAGGAAATATCCGGTGTCTCTTTCTATCTCTTTTG 60
 Db 100 GACGGGATCAATATATGCAACAGGAAATCTCCGGTGTCTCTTTCTATCTCTTTTG 159
 Qy 61 GCACTTCTCTGCTGTGACTGTCTCCCGCTTCGGCCACTATCTATCGCAAGTCTCGGGC 120

Query Match	67.1%;	Score 299.8;	DB 3;	length 579;
Best Local Similarity	78.7%;	Pred. No. 1.3e-84;		
Matches 352;	Conservative	4;	Mismatches 91;	Indels 0;
				Gaps 0;

Qy	1	GACGGGATCAATTATGCAACAGGGAAATATCCGGTGGCTCTTTCTATCTTCCTTTC	60
Db	100	GACGGGATTAATTACGACCAAGGGAAATTTCTGGTGGCTCTTTCTATCTTCCTTTC	159
Qy	61	GCACCTCTCTCGTGTCTGACTGTCCCGGCTTCGGCGCACTAATGACGACGTCTCGGCG	120
Db	160	GCACCTCTCTCGTGTCTGACTGTCCCGGCTTCGGCGCTAAGACCTAACCGGAATGTCTGGGCG	219
Qy	121	ATCTACCATGTACCAATGACTGCTCCCGAATTCAAGCATATGTATGATGAGCGGACCATAC	180
Db	220	ATCTACCATGTACCAATGATGATGCCCGAATTCAGAGCATATGTATGATGAGCGGATCACAC	279
Qy	181	ATCTTAGCACTTCCAGGTTGGCTGCTCGCTGAGAGTGGGAAACCATGACGCTGCTGG	240

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Db      280 ATCATGCACTTACAGGAGTGATACCTGCGTGAGAACCGGGAAGTTTGCGCTGCTGG 339
Qy      241 GTGGCCCTTACCCCTTACCGTGCAGCGGCAATACACCGGCGCGCTTGAATCCTTCGCG 300
Db      340 GTATCTGTGAACCTTACTGTGTGCTCTCCCTACCTCGGGGCTTACGCTTACGCTACGG 399
Qy      301 AGTCATGTGATGTGATGTGAGAGTGCACCTGTTGTTGACGCTTATACATCGGAGAY 360
Db      400 CGGATGTGATGTGATGTGAGTGTGAGAGTGCACACCTTGTCTGTGCTTACGTGTGAGAC 459
Qy      361 TTGTGTGCGCGCTTGTCTTGTGTGTGTCAGATGTTCTTCTTTCAGCCTCGCGCACTGG 420
Db      460 CTCTGTGAGAGTGTCTTCTTGTGTGAGAGATGTTTCACTTCCAGCGCGCGCACTGG 519
Qy      421 ACTACCGAGATTCGAATGTTCCAT 446
Db      520 ACCACTGAGACTGCACTGCTCAT 545

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RESULT 15

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US-08-836-075A-39
; Sequence 39, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-39

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Query Match          65.6%; Score 293.4; DB 3; Length 447;
Best Local Similarity 77.9%; Pred. No. 1.2e-82;
Matches 348; Conservative 4; Mismatches 95; Indels 0; Gaps 0;

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Db      1 GAGGGATCAATTATGCAACAGGGAATCTCCCGGTGTCTCTTCTTCTTATCTTCACTCG 60
Qy      61 GCACTTCTCTGTGTCTGACTGTCTCCCGCTTGTGGCACTTACTATGCAAGCTTCGGGC 120
Db      61 GCACTTCTCTGTGTCTGACTGTCTCCCGCTTGTGGCACTTACTATGCAAGCTTCGGGC 120
Qy      121 ATCTACCATGTCAACAAATGATGTCGCGGAATTGAAGATGTATGAGGCGGACATCAC 180
Db      121 ATTTACCATGTCAACAAATGATGTCGCGGAATTGAAGATGTATGAGTCCGACATCAC 180
Qy      181 ATCTTACACTTCCAGGTTGCGTGTGCGCTGTGAGAGTGTGAGAACAGTCACTGCTGG 240
Db      181 ATCTTACACTTCCAGGTTGCGTGTGCGCTGTGAGAGTGTGAGAACAGTCACTGCTGG 240
Qy      241 GTGGCCCTTACCCCTTACCGTGCAGCGGCAATACACCGCGCGCTTGAATCCTTCGCG 300
Db      241 GTGGCCCTTACCACTTACCGTGCAGCGGCGCCCATCTTTCGCTTCACTTATGTCCGTA 300
Qy      301 AGTCATGTGATGTGATGTGAGAGTGCACCTGTTGTTGACGCTTATACATCGGAGAY 360
Db      301 CGGATGTGATGTGATGTGAGAGTGCACCTTATGTTGCTTACGTTGAGAGAC 360
Qy      361 TTGTGTGCGCGCTTGTCTTGTGTGTGTCAGATGTTCTTCTTTCAGCCTCGCGCACTGG 420
Db      361 CTCTGTGCGCGGCTGTCTTGTGTGTGTCAGATGTTCTTCTTTCAGCCTCGCGCACTGG 420
Qy      421 ACTACCGAGATTCGAATGTTCCATC 447
Db      421 ACTGTCCAGACTGCAACTGTTCATC 447

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Search completed: January 11, 2006, 04:37:56
Job time : 112.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-37

Perfect score: 447
Sequence: 1 gacggatcatatcgaac.....aggatcatgttcac 447

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	446.6	99.9	447	3	US-08-836-075A-37 Sequence 37, App1
2	402.6	90.1	447	3	US-08-836-075A-29 Sequence 29, App1
3	387.4	86.7	447	3	US-08-836-075A-35 Sequence 35, App1
4	384.2	86.0	447	3	US-08-836-075A-31 Sequence 31, App1
5	376.2	84.2	447	3	US-08-836-075A-31 Sequence 31, App1
6	339.4	75.9	574	3	US-09-878-281A-118 Sequence 118, App
7	337.8	75.6	579	3	US-09-878-281A-118 Sequence 118, App
8	333	74.5	579	3	US-09-878-281A-183 Sequence 183, App
9	333	74.5	579	3	US-09-878-281A-185 Sequence 185, App
10	315.4	70.6	579	3	US-09-878-281A-167 Sequence 167, App
11	312.2	69.8	579	3	US-09-878-281A-169 Sequence 169, App
12	307.4	68.8	579	3	US-09-878-281A-171 Sequence 171, App
13	305.8	68.4	579	3	US-09-878-281A-173 Sequence 173, App
14	302.2	67.6	579	3	US-09-878-281A-181 Sequence 181, App
15	301	67.3	447	3	US-08-836-075A-39 Sequence 39, App1
16	294.6	65.9	574	3	US-09-878-281A-120 Sequence 120, App
17	294.6	65.9	579	3	US-09-878-281A-175 Sequence 175, App
18	291.4	65.2	579	3	US-09-878-281A-179 Sequence 179, App
19	278.6	62.3	579	3	US-09-878-281A-179 Sequence 179, App
20	270.6	60.5	574	3	US-09-878-281A-182 Sequence 182, App
21	270.6	60.5	579	3	US-09-878-281A-189 Sequence 189, App
22	246.6	55.2	576	2	US-08-086-428B-43 Sequence 43, App1
23	246.6	55.2	576	2	US-08-468-570-43 Sequence 43, App1
24	246.6	55.2	576	2	US-08-290-655A-43 Sequence 43, App1

25	246.6	55.2	576	3	US-08-466-601A-43 Sequence 43, App1
26	246.6	55.2	576	6	PCT-US95-10398-43 Sequence 43, App1
27	244	54.6	576	2	US-08-086-428B-42 Sequence 42, App1
28	244	54.6	576	2	US-08-468-570-42 Sequence 42, App1
29	244	54.6	576	2	US-08-290-665A-42 Sequence 42, App1
30	244	54.6	576	3	US-08-466-601A-42 Sequence 42, App1
31	244	54.6	576	6	PCT-US95-10398-42 Sequence 42, App1
32	233.8	52.3	9401	2	US-08-432-693-1 Sequence 1, App1
33	233.8	52.3	9416	3	US-08-811-566-19 Sequence 19, App1
34	233.8	52.3	9416	3	US-09-034-756-19 Sequence 19, App1
35	233.8	52.3	9416	3	US-09-014-416-2 Sequence 2, App1
36	233.8	52.3	9416	3	US-08-811-566-1 Sequence 1, App1
37	233.8	52.3	9646	3	US-09-034-756-1 Sequence 1, App1
38	233.8	52.3	10803	3	US-10-259-275-17 Sequence 17, App1
39	232.2	51.9	9165	3	US-09-827-688-7 Sequence 7, App1
40	232.2	51.9	12980	3	US-08-811-566-5 Sequence 5, App1
41	232.2	51.9	12980	3	US-09-034-756-5 Sequence 5, App1
42	230.6	51.6	9416	3	US-08-823-895A-26 Sequence 26, App1
43	230.6	51.6	9416	3	US-10-104-966-13 Sequence 13, App1
44	230.6	51.6	9416	3	US-09-929-955-13 Sequence 13, App1
45	227.4	50.9	501	2	US-08-483-695-29 Sequence 29, App1

ALIGNMENTS

RESULT 1
US-08-836-075A-37
Sequence 37, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MARTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-37

Query Match 99.9%; Score 446.6; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 1.5e-129;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACGGGATTATATGCAACAGGGAAYCTCCCGGTTGCTTTCTATCTTCCTTG 60
DB 1 GACGGGATTATATGCAACAGGGAAYCTCCCGGTTGCTTTCTATCTTCCTTG 60
QY 61 GCACTTCTCTGCTGCTGACTGTCTCCGCTTCGCGCACTACCGCAATGTCTCGG 120
DB 61 GCACTTCTCTGCTGCTGACTGTCTCCGCTTCGCGCACTACCGCAATGTCTCGG 120
QY 121 ATTTACCATGTCAACCAATGACTGCCCGAATTCAAGCATAGTGTGAGCGGCACTAC 180
DB 121 ATTTACCATGTCAACCAATGACTGCCCGAATTCAAGCATAGTGTGAGCGGCACTAC 180
QY 181 ATCTTGACCTTCGAGATGCGTCCCTGCGGTGAAGAGGGAATCAATTCACGCTG 240
DB 181 ATCTTGACCTTCGAGATGCGTCCCTGCGGTGAAGAGGGAATCAATTCACGCTG 240
QY 241 GTGGCCCTTACCCCTACCGTGCAGCGCATATCGCGCGCACTTGAATCTCTACG 300
DB 241 GTGGCCCTTACCCCTACCGTGCAGCGCATATCGCGCGCACTTGAATCTCTACG 300
QY 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
DB 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
QY 361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 ACTACCCAGGAATGCAATTTGTCATC 447
DB 421 ACTACCCAGGAATGCAATTTGTCATC 447
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RESULT 2

US-08-836-075A-29
; Sequence 29, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836.075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-29

Query Match 90.1%; Score 402.6; DB 3; Length 447;
Best Local Similarity 93.3%; Pred. No. 8.4e-116;
Matches 417; Conservative 3; Mismatches 27; Indels 0; Gaps 0;

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QY 1 GACGGGATTATATGCAACAGGGAAYCTCCCGGTTGCTTTCTATCTTCCTTG 60
DB 1 GACGGGATTATATGCAACAGGGAAYCTCCCGGTTGCTTTCTATCTTCCTTG 60
QY 61 GCACTTCTCTGCTGCTGACTGTCTCCGCTTCGCGCACTACCGCAATGTCTCGG 120
DB 61 GCACTTCTCTGCTGCTGACTGTCTCCGCTTCGCGCACTACCGCAATGTCTCGG 120
QY 121 ATTTACCATGTCAACCAATGACTGCCCGAATTCAAGCATAGTGTGAGCGGCACTAC 180
DB 121 ATTTACCATGTCAACCAATGACTGCCCGAATTCAAGCATAGTGTGAGCGGCACTAC 180
QY 181 ATCTTGACCTTCGAGATGCGTCCCTGCGGTGAAGAGGGAATCAATTCACGCTG 240
DB 181 ATCTTGACCTTCGAGATGCGTCCCTGCGGTGAAGAGGGAATCAATTCACGCTG 240
QY 241 GTGGCCCTTACCCCTACCGTGCAGCGCATATCGCGCGCACTTGAATCTCTACG 300
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QY 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
DB 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
QY 361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 ACTACCCAGGAATGCAATTTGTCATC 447
DB 421 ACTACCCAGGAATGCAATTTGTCATC 447
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RESULT 3

US-08-836-075A-35
; Sequence 35, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:

APPLICANT: MARTENS, GERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 TITLE OF INVENTION: AGENTS
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995

	NAME: KAMMERER, PATRICIA A.	
	REGISTRATION NUMBER: 29,775	
	REFERENCE/DOCKET NUMBER: INNS.004	
	INFORMATION FOR SEQ ID NO: 31:	
	SEQUENCE CHARACTERISTICS:	
	LENGTH: 447 base pairs	
	TYPE: nucleic acid	
	STRANDEDNESS: single	
	TOPOLOGY: linear	
	MOLECULE TYPE: cDNA	
	HYPOTHEICAL: NO	
	ANTI-SENSE: NO	
	US-08-836-075A-31	
	Query Match	86.0%; Score 384.2; DB 3; Length 447;
	Best Local Similarity	91.1%; Pred. No. 4,76-110;
	Matches 407; Conservative 1; Mismatches 39; Indels 0; Gaps 0;	
QY	1 GACGGGATTATTAATGCAACAGGGAATCTCCCGGTTGCTTTTTCATCTTCTCTTGG	60
Db	1 GACGGGATCAATTATGCAACAGGGAACCTTCCCGTGTCTTTTTCATCTTCTCTTGG	60
QY	61 GCACCTTCCTCGTACTGACGTGCCCGCTTCGGCCACCACTACCGGAATGTCCTGGGC	120
Db	61 GCACCTCTCTCGTACTGACGTGCCCGCTTCGGCCATTAATCTACCGGAACACTCGGGC	120
QY	121 ATTACCATGTACCAATGACTGCCGGAATTCAAGCATAGTGTAGGCGGCACCATCAC	180
Db	121 ATCTACCACTGACCAATGACTGCCCGCAACTCGAGCATAGTTTATGAGGCCGACCAAC	180
QY	181 ATCTTGACCTTCGAGATGGTCCCTGGGTGAAGAGGGGAATTCATTCACGCTGGTG	240
Db	181 ATCTTGACCTTCGAGATGGTCCCTGGGTGAAGAACTGGGAATTCATTCACGTTGCTGG	240
QY	241 GTGGCCCTTACCCCTACCGTGCAGCGCCATATCATGCGCGGCCCATTTGACTTCTACGG	300
Db	241 GTGGCCCTTACTCTTACCGTGCAGCGCCCATATCATCGCGCCCATTTGACTTCTCGGG	300
QY	301 AGTCATGTGATGTGATGTGGGGGGCTGCCATGTGTTGTTGAGCCCTTTATCATGGGGAT	360
Db	301 AGTCATGTGATGTGATGTGGGGGGCTGCCATGTGTTGCTCAGCCCTTTTACATGGGGAT	360

Qy 361 CAGTGGGGGCGCTGTGTCCTCGGTTGGACAGATGTCCTTTCCGACACGGGCGCACTGG 4420

Db 361 TTGTGTGGGGCGCGCTGTGTCCTCGGTTGGACAGATGTCCTTTCCGACACGCGCACTGG 4420

Qy 421 ACTACCCAGAGATGCATTTGTTCAATC 4447

Db 421 ACTGCCACAGATTGCATTTGTTTATAC 4447

RESULT 5

```

: Sequence 33 Application US/08836075A
: Patent No. 6180768
: GENERAL INFORMATION:
: APPLICANT: MAERTENS, GEERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: TITLE OF INVENTION: AGENTS
: NUMBER OF SEQUENCES: 207
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
: CITY: HOUSTON
: STATE: TEXAS
: COUNTRY: USA
: ZIP: 77210-4433
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Microsoft word 6.0 / ASCII text output
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/836,075A
: FILING DATE: 21 Apr 1997
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/EP95/04155
: FILING DATE: 23 Oct 1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 94870166.9
: FILING DATE: 21 Oct 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 95870076.7
: FILING DATE: 28 Jun 1995
: ATTORNEY/AGENT INFORMATION:
: NAME: KAMMERER, PATRICIA A.
: REGISTRATION NUMBER: 29,775
: REFERENCE/DOCKET NUMBER: INNS:004
: INFORMATION FOR SEQ ID NO: 33:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 447 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: US-08-836-075A-33

```

Query Match	84.2%;	Score 376.2;	DB 3;	Length 447;
Best Local Similarity	89.9%;	Pred. No. 1.5e-107;		
Matches 402; Conservative	1;	Mismatches 44;	Indels 0;	Gaps 0;

QY 1 GACGGAGTTAATTATGCAACAGGGAAVCTCCCGGTTGCTCTTTTTCATCTTCCTCTTG 60
DB 1 GACGGAGTTAATTATGCAACAGGGAACTTCCCGGTGCTCCTTTCTATCTTCTCTTG 60
QY 61 GCACTCTCTCGGCTGACTGTCCCGGCTTGCGGCCAACAATGCGCAATGTCTCGGGC 120
DB 61 GCACTTCTCTCGGCTGACTGTCCCGGCTTGCGGCCAATTAACCAACAACACTCGGGC 120
QY 121 AATTACCATGTCACCAATGACTGCCCGAATTCAAGCAATAGTGTTTGAAGCGCAATCAC 180

Db	121	ATCTATCAATATCAACAAGACATCGCCGGAATTAAGATAGTATATGAGGCGCACATCAC	180
QY	181	ATCTTGACATCTTCACAGATCGCTGCTCTGCTGTAAAGAGGAAATCATTTACGCTGTGG	240
Db	181	ATCTTGACATCTTCACAGATCGCTGCTCTGCTGTAAAGAGGAAATCATGTGAGATTTGCTGG	240
QY	241	GTHGCGCTTACCCCTACACCGTCGAGCGGCATACATCGGCGCGGCACATTGAGTCTTACGG	300
Db	241	GTHGCGCTTACCCCTACATCGAGCGGCATACATCGGCGGCACCGCTTGAATCCTTGGCGG	300
QY	301	AGTCATGTGCAATGTATGTGTGGGGGCTGCACATGTTTGTCAACCCCTTAACATGGGGAT	360
Db	301	AGTCATGTGCAATGTATGTGTGGGGGCGGCCACATGTCGTTCAGCCCTTAACATGGGGAT	360
QY	361	CTGTGCGGTGCGCTGTGTTCTTCGTGTGTGTCAGATGTTCTTTTCGAGCCAGCGGCACATGG	420
Db	361	TTGTGTGGGGGTGCGCTTTTGTGTGTGTCAGATGTTCTTTTCGAGCCAGCGGCACATGG	420
QY	421	ACTACCCAGGAATGCAATGTTCCATC	447
Db	421	ACCACCCAGATTGCAATGCTCCATC	447

RESULT 6

```

US-09-878-281A-118
; Sequence 118, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 118
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-118

```

Query Match	75.9%;	Score 339.4;	DB 3;	Length 574;
Best Local Similarity	84.8%;	Pred. No. 5.1e-96;		
Matches 379;	Conservative 1;	Mismatches 67;	Indels 0;	Gaps 0;

QY	1	GACGGGATTAATTATGCAACAGGGAAYCTCCCCGGTGTCTCTTTTCTATCTTCTCTTG	60
Db	100	GACGGGATTAATTATGCGACAGAGGAATCTTCCGGTGTCTCTTTCTATCTTCTCTTG	159
QY	61	GCACCTTCTGTGCTGACCTGTCCCGGCTTCGGGACCACTACCGGAATGTCTCGGGC	120
Db	160	GCACCTTCTGTGCTGACCTGTCTCCACTTCGGGCGTCACTATCGCAATGCTTCGGGC	219
QY	121	ATTTCACATGCACCAATGACTGCCCGAATTCAGACATAGTGTGAGGCGGACCATCAC	180
Db	220	ATCTATCAATACCAATGACTGCCCGCAACTCGACATATAGTGTAGAGACCGAGACACAC	279
QY	181	ATCTTGACCTTCCAGATGCGTGGCTGCGTGGTGAAGAGGGAATCATTCACGCTGTGG	240
Db	280	ATCTTACACCTTCCAGGGGTGTTTACCTCGCGTGAAGGTTGGGAATCACTACGCTGTGG	339
QY	241	GTGGGCTTACCCCTACCGTCGCGACGCGCATACATCGCGCGGCCACTTGAGTCTTACG	300
Db	340	GTGGGCTTACCTCCACCGTCGCGCGCTTACATCGCGCGCTTCGGCTTGAAATCCTCCGG	399
QY	301	AGTCATGTGATGTGATGTGTGGGGCTGCCACTGTGTTTCAGCCCTTTACATCGGGAT	360
Db	400	AGTCATGTGATGTGATGTGTAGTGTCGCCCTACTCGGTCTCGCTCTTTTACATCGGAAC	459
QY	361	CTGTGGCGGTGCTGTTCGTGGTGTGTAGATGTCTCTTTTCGACCAAGGGGCGACATGG	420
Db	460	CTGTGGCGGTGATTTCTTGGTGTGTAGATGTCTCTTTTCAGCGCGGGGGCCATCTGG	519

QY 421 ACTACCGAGATGCAATGTTTCATC 447
 |||||
 Db 520 ACTACGAGAGACTGCAATGTTTCATC 546

RESULT 7

US-09-878-281A-187
 ; Sequence 187, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878, 281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 187
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-187

Query Match 75.6%; Score 337.8; DB 3; Length 579;
 Best Local Similarity 84.6%; Pred. No. 1.6e-95;
 Matches 375; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTCTTTCTATCTTCTCTTG 60
 |||||
 Db 100 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTCTTTCTATCTTCTCTTG 159
 QY 61 GCACTTCTCTGTCGCTGACGTGCTCCCGCTTCGCGCACTACCGCAATGCTCGGGC 120
 |||||
 Db 160 GCACTTCTCTGTCGCTGACGTGCTCCCGCTTCGCGCACTACCGCAATGCTCGGGC 219
 QY 121 ATTACCATGTCACCAATGACTGCTCCGAAATTCAGATAGTTTGGCGGACATCAC 180
 |||||
 Db 220 ATCTATCATATCACCATGACTGCTCCGAACTCGAGCATAGTGTAGAGACGAGACAC 279
 QY 181 ATCTTGACCTTCCAGAGATGCTGCTCGCTGTGAAGAGGAAATCATTCAGCTGCTG 240
 |||||
 Db 280 ATCTTGACCTTCCAGAGATGCTGCTCGCTGTGAAGAGGAAATCATTCAGCTGCTG 339
 QY 241 GTGGCCCTTACCTTACCTTCGCGAGCGCCATACATCGCGCGCTTGTAGTCTTAC 300
 |||||
 Db 340 GTGGCCCTTACCTTACCTTCGCGAGCGCCATACATCGCGCGCTTGTAGTCTTAC 399
 QY 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 |||||
 Db 400 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 CTGTGCGGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 |||||
 Db 460 CTGTGCGGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
 QY 421 ACTACCGAGATGCAATGTTTCATC 447
 |||||
 Db 520 ACTACGAGAGACTGCAATGTTTCATC 546

RESULT 8

US-09-878-281A-183
 ; Sequence 183, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878, 281A
 ; CURRENT FILING DATE: 2001-06-12

NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 183
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-183

Query Match 74.5%; Score 333; DB 3; Length 579;
 Best Local Similarity 83.9%; Pred. No. 5.1e-94;
 Matches 375; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTCTTTCTATCTTCTCTTG 60
 |||||
 Db 100 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTCTTTCTATCTTCTCTTG 159
 QY 61 GCACTTCTCTGTCGCTGACGTGCTCCCGCTTCGCGCACTACCGCAATGCTCGGGC 120
 |||||
 Db 160 GCACTTCTCTGTCGCTGACGTGCTCCCGCTTCGCGCACTACCGCAATGCTCGGGC 219
 QY 121 ATTACCATGTCACCAATGACTGCTCCGAAATTCAGATAGTTTGGCGGACATCAC 180
 |||||
 Db 220 ATCTATCATATCACCATGACTGCTCCGAACTCGAGCATAGTGTAGAGACGAGACAC 279
 QY 181 ATCTTGACCTTCCAGAGATGCTGCTCGCTGTGAAGAGGAAATCATTCAGCTGCTG 240
 |||||
 Db 280 ATCTTGACCTTCCAGAGATGCTGCTCGCTGTGAAGAGGAAATCATTCAGCTGCTG 339
 QY 241 GTGGCCCTTACCTTACCTTCGCGAGCGCCATACATCGCGCGCTTGTAGTCTTAC 300
 |||||
 Db 340 GTGGCCCTTACCTTACCTTCGCGAGCGCCATACATCGCGCGCTTGTAGTCTTAC 399
 QY 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 |||||
 Db 400 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 CTGTGCGGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 |||||
 Db 460 CTGTGCGGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
 QY 421 ACTACCGAGATGCAATGTTTCATC 447
 |||||
 Db 520 ACCACGAGAGACTGCAATGTTTCATC 546

RESULT 9

US-09-878-281A-185
 ; Sequence 185, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878, 281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 185
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-185

Query Match 74.5%; Score 333; DB 3; Length 579;
 Best Local Similarity 83.9%; Pred. No. 5.1e-94;
 Matches 375; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTCTTTCTATCTTCTCTTG 60
 |||||
 Db 100 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTCTTTCTATCTTCTCTTG 159
 QY 61 GCACTTCTCTGTCGCTGACGTGCTCCCGCTTCGCGCACTACCGCAATGCTCGGGC 120

Db 160 GCACCTTCTCTGCTGCTACGTACTGTTCACCTCGGSCACTCATCTGCAATGCTCTGGGC 219

QY 121 ATTTACCATGTCAACCAATGACTGCGCCGAATTCAAGCATAGTGTTTAGGCGGCACCATCAC 180

Db 220 GTTACACACGTCACCAATGACTGCGCCGAATCTGACATAGTGTACGAGCGGCACACAC 279

QY 181 ATCTTGACCTTCCAGAGATGGGTGCCGCGTGAAGAAGGGAATCATTCAGCGCTGCG 240

Db 280 ATCTCAACCTTCCAGAGGTGCTTACCTCTGTGTGAGGTTGGGAATCAATCAGTTGTTGG 339

QY 241 GTGCGCCTTACCCCTTACCGCTGCGACGCGCATACATCGGCGGCGCACTTGAATCTCTACGG 300

Db 340 GTGGCGCCTCTCTCCACCGGTGGCGGCGCCTTACATCGGTGCTCAGTTGAATCTTTCGAG 399

QY 301 AGTACATGGAATGATGTGTGGGGGCTGCCATGTTTGTTCAGGCTTTAATATGGGGAT 360

Db 400 AGACGCGTGAACATATGATGTGGGCGCTGTACTGTGTCTCGCTCTTATATTTGGGGAC 459

QY 361 CTGTGCGGTGCGCTTGTCTCGTGTGGTTCAGATGTTCTTTTCGACACGCGGCACATGG 420

Db 460 TTGTGTGGTGGGATATCTTGTGGTGTGATGTTTCTTTTCGGCCACGACGCACATGG 519

QY 421 ACTACCCAGGAATGCAATTTGTTCCATC 447

Db 520 ACTACGACGAGACTGCATTTGTTCCATC 546

```

RESULT 10
US-09-878-281A-167
; Sequence 167, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 167
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-167

```

Query Match	70.6%;	Score 315.4;	DB 3;	Length 579;
Best Local Similarity	81.4%;	Pred. No. 1.6e-88;		
Matches 364;	Conservative 1;	Mismatches 82;	Indels 0;	Gaps 0;

Oy 1 GACGGGATTTAATTATGCAACAGGGGAATCTCCCGGGTTCTCTTTTTCATCTCTCTCTTG 60
 Db 100 GACGGGATTCATTATGCAACAGGGAACTTCCCGGTTCTCTTTTTCATCTCTCTCTTG 159
 Oy 61 GCACCTTCTCTGTCGTCGACATCTGTCGCCGCTTCGCGCACAACTACCGCAATGTCTGCGGC 120
 Db 160 GCGCTCCTCTGTGCTGTACCTGTTTCCACATCGCGCGTTAACTTAACGAATGCTTCGCGGC 219
 Oy 121 ATTTACCAATGTCACCAATGACTGCTCCGGAATTCAMGCATATGTTTGAGGCCGACCATCAC 180
 Db 220 ATTTATCAATACCAATGACTGCTCCGGAATGCAAGCATATGTTAGCAACCGAAATATCA 279
 Oy 181 ATCTTGCACTCTCCAGAGATGCGTGCCTCGCGGAAGAAGGGAAATCATTCACGCTGCTGG 240
 Db 280 ATCTTACCTCTCCAGAGGATGCGTACCTCTGTGTGAGACCTGGAAACAAATCGCGGTTGG 339
 Oy 241 GTGGCCCTTACCCCTACCGCTCGCAGAGGCCATATACGTGCGCGCACTTGATCTCTACGG 300
 Db 340 GTGGCCCTCATCTCCACAGTAGCGTGTGCGCATACGCGCGGTGCTCCGCTTGAACCTCTGGGG 399
 Oy 301 AGTCATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360

Db	400	CGCATATGTGACCTGATGTTAGTGTGTCGACCAATGTTCCGGCCCTCTCATATCGGGAC	459
Qy	361	CTGTGGGGTGGGCGTTGTTCCGTGGTGTGACAGATGTTCTCTTCGACACACGGCGCACTGG	420
Db	460	TTGTGGGTGTGCTTATCTTGTGGTGGCCAAATGTTCACTTCCACCGCAGCGTCACTGG	519
Qy	421	ACTACCCAGGATGCAATGTTTCATC	447
Db	520	ACCACTTAGACATGCAATGTTCCATC	546

```

RESULT 11
US-09-878-281A-169
; Sequence 169, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Inogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and treatment
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patentin version 3.1
; SEQ ID NO. 169
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-169

```

Query Match	69.8%	Score 312.2;	DB 3;	Length 579;
Best Local Similarity	81.0%;	Pred. No. 1.6e-87;		
Matches 362;	Conservative 1;	Mismatches 84;	Indels 0;	Gaps 0;

```

OY      1  GACGGGATTAATTATGCAACAGGGAAVCTCCCGGTGCTCTTTTCTATCTCTCTG  60
        |||
Db      100  GACGGGATCACTACGCAACAGGGAAVCTCCCGGTGCTCTTTTCTATCTCTCTTG  159
OY      61  GCACCTTCTCTGTCGCTGCTGCTGCTCCCGCTTGCGGCACAACCACTAGTCTCGGGC  120
        |||
Db      160  GCACCTTCTCTGTCGCTGCTGCTGCTCCCGCTGCGGGCGTTAATATGCAATGCTTCGGGC  219
OY      121  ATTTAACCATGTCACCAATGACTGCCCCGAATTCAAGCATAGTGTGTTGAGCCGACATCAC  180
        |||
Db      220  GTTATATCATCATCAACCAACGACTGCCGGAATGCAGAGATAGTATACGAGACCGACAATCAC  279
OY      181  ATCTTGACACCTTCGAGGATGCGCGCTGCTGCTGCTGAAGAAGGGAATCATCTACGCTGCTGG  240
        |||
Db      280  ATCTTAACACTCTCCAGGGTGCGTACCTGTGTATGAAGCCGGAAACAGTGGCGGTGTTGG  339
OY      241  GTGGCCCTTACCCCTTACCGCTGCGAGCGCATACATCGGCGCGCATCTTGAGTCTCTACGG  300
        |||
Db      340  GTGGCCCTTACCTCCACAGATGGGCTGCGCTTACGTGGTGCTCCGCTCGAGCCCTTGCGG  399
OY      301  AGTCATGTGATGTGATGTGTGGGGGCTGCCACTGTTTGTTCAGGCCCTTACATGTGGGAT  360
        |||
Db      400  CGCCATGTGACCTGATGTGATGTGCTGCGCACCGTGTGCTCCGCTCTACGTGTGGGAC  459
OY      361  CTGTGCGGTGCTTGTGCTGCTGTTGTGTCAGATGTTCTTTGCGACCAACGGCGGCACATCG  420
        |||
Db      460  CTGTGCGGTGCTTATTTCTTGTGATGGCCAAATGTTCACCTTCCACCGCAACGCACTCG  519
OY      421  ACTACCCAGAAATGCATTTGTCATC  447
        |||
Db      520  ACGACCCAGACTGTATTTGTTCCATC  546

RESULT 12
US-09-878-281A-171
; Sequence 171, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.

```

;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
;; FILE OF INVENTION: and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 171
;; LENGTH: 579
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-171

Query Match 68.8%; Score 307.4; DB 3; Length 579;
Best Local Similarity 80.3%; Pred. No. 5,1e-86;
Matches 359; Conservative 1; Mismatches 87; Indels 0; Gaps 0;

QY 1 GACGGATTAAATATGCAACAGGGAAYCTCCCGGTGCTCTTTCTATCTTCCTCTG 60
DB 100 GACGGATTAAATATGCAACAGGGAAYCTTCGTGCTCTTTCTATCTTCCTCTG 159
QY 61 GCATTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 160 GCATTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACCATGTCACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 220 ATTACCATGTCACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 279
QY 181 ATCTTGACCTTCAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 280 ATCTTGACCTTCAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
QY 241 GTGCGCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 300
DB 340 GTGCGCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 399
QY 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 360
DB 400 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 459
QY 361 CTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 CTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTACCCAGGAATGCAATGTTTCATC 447
DB 520 ACCACCCAGGAGTGCATGTTCCACC 546

RESULT 13
US-09-878-281A-173

;; Sequence 173, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
;; FILE OF INVENTION: and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 173
;; LENGTH: 579
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-173

Query Match 68.4%; Score 305.8; DB 3; Length 579;
Best Local Similarity 80.1%; Pred. No. 1.6e-85;
Matches 358; Conservative 1; Mismatches 88; Indels 0; Gaps 0;

QY 1 GACGGATTAAATATGCAACAGGGAAYCTCCCGGTGCTCTTTCTATCTTCCTCTG 60
DB 100 GACGGATTAAATATGCAACAGGGAAYCTTCGTGCTCTTTCTATCTTCCTCTG 159
QY 61 GCATTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 160 GCATTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACCATGTCACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 220 ATTACCATGTCACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 279
QY 181 ATCTTGACCTTCAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 280 ATCTTGACCTTCAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
QY 241 GTGCGCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 300
DB 340 GTGCGCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 399
QY 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 360
DB 400 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 459
QY 361 CTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 CTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTACCCAGGAATGCAATGTTTCATC 447
DB 520 ACCACCCAGGAGTGCATGTTCCACC 546

RESULT 14
US-09-878-281A-181

;; Sequence 181, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
;; FILE OF INVENTION: and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 181
;; LENGTH: 579
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
;; NAME/KEY: misc_feature
;; LOCATION: (152)..(152)
;; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-181

Query Match 67.6%; Score 302.2; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 2.2e-84;
Matches 355; Conservative 1; Mismatches 90; Indels 0; Gaps 0;

QY 1 GACGGATTAAATATGCAACAGGGAAYCTCCCGGTGCTCTTTCTATCTTCCTCTG 60
DB 100 GACGGATTAAATATGCAACAGGGAAYCTTCGTGCTCTTTCTATCTTCCTCTG 159
QY 61 GCATTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 160 GCATTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACCATGTCACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 220 ATTACCATGTCACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 279
QY 181 ATCTTGACCTTCAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240

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Db 280 ATCATGACTTACACGAGGATGATACCTGCTGAGAACCGGAAAGTTTGCGCTGCTGG 339
Qy 241 GTGGCCCTTACCCCTACCGTGCAGCGCAATCGCGCGGCACTTGAGTCTTACCG 300
Db 340 GTATCTCTGACACCTACTGATGCTGCTCCCTACCTCGGGGCTCGCTTACGCTGACGG 399
Qy 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 400 CGGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
Qy 361 CTGTGCGGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 420
Db 460 CTCTGTGAGGTGTCTTCTCTAGTGGACAGATGTTCACTTCCAGCGCGCGCACTGG 519
Qy 421 ACTACCGAGAAATGCAATGTTCCAT 446
Db 520 ACCACTGAGACTGCACTGCTCAT 545

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RESULT 15

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US-08-836-075A-39
; Sequence 39, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 9487016.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 9587007.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-39

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Query Match 67.3%; Score 301; DB 3; Length 447;
Best Local Similarity 79.4%; Pred. No. 4.7e-84;
Matches 355; Conservative 1; Mismatches 91; Indels 0; Gaps 0;

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Qy 1 GACGGATTAATATGCAACAGGAACTCCCGGTGCTTTTCTATCTTCTCTTG 60
Db 1 GAGGGATCAATATGCAACAGGAACTCCCGGTGCTTTTCTATCTTCTCTTG 60
Qy 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Qy 121 ATTACCATGTCACCAATGATGCTGCGGCAATTAAGGATGATGATGATGATGATGATGATGAT 180
Db 121 ATTACCATGTCACCAATGATGCTGCGGCAATTAAGGATGATGATGATGATGATGATGATGAT 180
Qy 181 ATCTTCACCTTCACGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Db 181 ATCTTCACCTTCACGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Qy 241 GTGGCCCTTACCCCTACCGTGCAGCGCAATGATGATGATGATGATGATGATGATGATGAT 300
Db 241 GTGGCCCTTACCACTACCGTGCAGCGCAATGATGATGATGATGATGATGATGATGATGAT 300
Qy 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 301 CGGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Qy 361 CTGTGCGGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 420
Db 361 CTGTGCGGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 420
Qy 421 ACTACCGAGAAATGCAATGTTCCAT 447
Db 421 ACTGTCAGACTGCACTGCTCAT 547

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Search completed: January 11, 2006, 04:37:57
Job time : 112.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds

(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-39

Perfect score: 447

Sequence: 1 gacggatcatatgcacac.....aagactgcactgtccatc 447

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapept 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued_Patents_NA:*

- 1: /cgn2_6/ptodata/1/ina/1.COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5.COMB.seq:*
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- 4: /cgn2_6/ptodata/1/ina/6B.COMB.seq:*
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- 8: /cgn2_6/ptodata/1/ina/RE.COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	447	100.0	447	3	US-08-836-075A-39
2	344.2	77.0	579	3	US-09-878-281A-181
3	315.8	70.6	574	3	US-09-878-281A-120
4	315.8	70.6	579	3	US-09-878-281A-175
5	315.8	70.6	579	3	US-09-878-281A-177
6	303	67.8	574	3	US-09-878-281A-118
7	301.4	67.4	579	3	US-09-878-281A-171
8	301.4	67.4	579	3	US-09-878-281A-187
9	301	67.3	447	3	US-08-836-075A-37
10	299.8	67.1	574	3	US-09-878-281A-122
11	299.8	67.1	579	3	US-09-878-281A-169
12	299.8	67.1	579	3	US-09-878-281A-189
13	295	66.0	579	3	US-09-878-281A-167
14	293.4	65.6	447	3	US-08-836-075A-35
15	293.4	65.6	579	3	US-09-878-281A-185
16	291.8	65.3	579	3	US-09-878-281A-173
17	288.6	64.6	447	3	US-08-836-075A-29
18	287	63.1	447	3	US-08-836-075A-31
19	282.2	63.1	447	3	US-08-836-075A-33
20	280.6	62.8	579	3	US-09-878-281A-183
21	267.8	59.9	579	3	US-09-878-281A-179
22	235	52.6	576	2	US-08-086-428B-42
23	235	52.6	576	2	US-08-468-570-42
24	235	52.6	576	2	US-08-290-655A-42

25	235	52.6	576	3	US-08-466-601A-42	Sequence 42, App1
26	235	52.6	576	6	PCT-US95-10398-42	Sequence 42, App1
27	227.8	51.0	9599	3	US-09-014-416-2	Sequence 2, App1
28	227.8	51.0	9646	3	US-08-811-566-1	Sequence 1, App1
29	227.8	51.0	9646	3	US-09-034-756-1	Sequence 1, App1
30	227.8	51.0	10803	3	US-10-259-275-17	Sequence 17, App1
31	226.2	50.6	9365	3	US-09-827-688-7	Sequence 7, App1
32	226.2	50.6	12980	3	US-08-811-566-5	Sequence 5, App1
33	226.2	50.6	12980	3	US-09-034-756-5	Sequence 5, App1
34	224.6	50.2	9416	3	US-08-823-895A-26	Sequence 26, App1
35	224.6	50.2	9416	3	US-10-104-966-13	Sequence 13, App1
36	224.6	50.2	9416	3	US-09-929-955-13	Sequence 13, App1
37	223	49.9	501	2	US-08-483-695-2	Sequence 2, App1
38	223	49.9	501	2	US-08-483-695-27	Sequence 27, App1
39	223	49.9	501	2	US-07-965-285-2	Sequence 2, App1
40	223	49.9	501	2	US-07-965-285-27	Sequence 27, App1
41	223	49.9	501	2	US-08-487-231-2	Sequence 2, App1
42	223	49.9	501	2	US-08-487-231-27	Sequence 27, App1
43	223	49.9	501	3	US-09-201-912-2	Sequence 2, App1
44	223	49.9	501	3	US-09-201-912-27	Sequence 27, App1
45	222	49.7	576	2	US-08-086-428B-40	Sequence 40, App1

ALIGNMENTS

RESULT 1
US-08-836-075A-39
Sequence 39, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-39

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 8.7e-125;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACGGGATCAATTATGACAGAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
DB 1 GACGGGATCAATTATGACAGAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATTACACGTCACCAAGAGAGTCCGCACTCCAGCATATGATATGATGCTCCAGCAT 180
DB 121 ATTACACGTCACCAAGAGAGTCCGCACTCCAGCATATGATATGATGCTCCAGCAT 180
QY 181 ATCTTACACCTACCAAGAGTGTATCCTGTGTGAAGATGGAACACTTCCGCTGCTG 240
DB 181 ATCTTACACCTACCAAGAGTGTATCCTGTGTGAAGATGGAACACTTCCGCTGCTG 240
QY 241 GTGGCCTTAAACACCTACCGTGGCCGCGCCATCTTCCGCTCCACTTATGTCCGTA 300
DB 241 GTGGCCTTAAACACCTACCGTGGCCGCGCCATCTTCCGCTCCACTTATGTCCGTA 300
QY 301 CGGATGTGATCTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
DB 301 CGGATGTGATCTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
QY 361 CTCTGCGGGGGTGCCTTCTAGTGTGGGAGATGTTTCACTTCCAGCCGCGTCCGCTG 420
DB 361 CTCTGCGGGGGTGCCTTCTAGTGTGGGAGATGTTTCACTTCCAGCCGCGTCCGCTG 420
QY 421 ACTGTCCAAGACTGCAACTGTGTCATC 447
DB 421 ACTGTCCAAGACTGCAACTGTGTCATC 447

RESULT 2
US-09-878-281A-181
; Sequence 181, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patent version 3.1
; SEQ ID NO 181
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
; NAME/KEY: misc_feature
; LOCATION: (152)..(152)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-181
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Query Match 77.0%; Score 344.2; DB 3; Length 579;
Best Local Similarity 85.7%; Pred. No. 8.5e-94;
Matches 382; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

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QY 1 GACGGGATCAATTATGACAGAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
DB 100 GACGGGATCAATTATGACAGAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 159
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
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DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACACGTCACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
DB 220 ATTACACGTCACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 279
QY 181 ATCTTACACCTACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
DB 280 ATCTTACACCTACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 339
QY 241 GTGGCCTTAAACACCTACCGTGGCCGCGCCATCTTCCGCTGCTGCTGCTGCTGCTG 300
DB 340 GTATCTCTGACACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 399
QY 301 CGGATGTGATCTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
DB 400 CGGATGTGATCTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 459
QY 361 CTCTGCGGGGGTGCCTTCTAGTGTGGGAGATGTTTCACTTCCAGCCGCGTCCACTG 420
DB 460 CTCTGCGGGGGTGCCTTCTAGTGTGGGAGATGTTTCACTTCCAGCCGCGCGCACTG 519
QY 421 ACTGTCCAAGACTGCAACTGTGTCAT 446
DB 520 ACCACTCAGGACTGCAACTGTGTCAT 545
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RESULT 3
US-09-878-281A-120
; Sequence 120, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patent version 3.1
; SEQ ID NO 120
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-120
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Query Match 70.6%; Score 315.8; DB 3; Length 574;
Best Local Similarity 81.7%; Pred. No. 3e-85;
Matches 365; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

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QY 1 GACGGGATCAATTATGACAGAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
DB 100 GACGGGATCAATTATGACAGAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 159
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACACGTCACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
DB 220 ATTACACGTCACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 279
QY 181 ATCTTACACCTACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
DB 280 ATCTTACACCTACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 339
QY 241 GTGGCCTTAAACACCTACCGTGGCCGCGCCATCTTCCGCTGCTGCTGCTGCTGCTG 300
DB 340 GTTCTTAAACACCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 399
QY 301 CGGATGTGATCTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
DB 400 CGGATGTGATCTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 459
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QY 361 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCGCGGCTGGCAGCTGG 420
Db 460 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCGCGGCTGGCAGCTGG 519
QY 421 ACTGTCCAGAGCTGCACTGTTTCATC 447
Db 520 ACTACCCAGAGCTGCACTGTTTCATC 546

RESULT 4
US-09-878-281A-175

; Sequence 175, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 175
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-175

Query Match 70.6%; Score 315.8; DB 3; Length 579;
Best Local Similarity 81.7%; Pred. No. 3e-85;
Matches 365; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 60
Db 100 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 159
QY 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 160 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
Db 220 ATTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 279
QY 181 ATCTTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
Db 280 ATCTTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 339
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QY 301 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Db 400 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCGCGGCTGGCAGCT 420
Db 460 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCGCGGCTGGCAGCT 519
QY 421 ACTGTCCAGAGCTGCACTGTTTCATC 447
Db 520 ACTACCCAGAGCTGCACTGTTTCATC 546

RESULT 5
US-09-878-281A-177

; Sequence 177, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy

; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 177
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-177

Query Match 70.6%; Score 315.8; DB 3; Length 579;
Best Local Similarity 81.7%; Pred. No. 3e-85;
Matches 365; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 60
Db 100 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 159
QY 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 160 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
Db 220 ATTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 279
QY 181 ATCTTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
Db 280 ATCTTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 339
QY 241 GTGGCTTAAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
Db 340 GTGGCTTAAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 399
QY 301 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Db 400 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCGCGGCTGGCAGCT 420
Db 460 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCGCGGCTGGCAGCT 519
QY 421 ACTGTCCAGAGCTGCACTGTTTCATC 447
Db 520 ACTACCCAGAGCTGCACTGTTTCATC 546

RESULT 6
US-09-878-281A-118

; Sequence 118, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 118
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-118

Query Match 67.8%; Score 303; DB 3; Length 574;
Best Local Similarity 79.9%; Pred. No. 2.1e-81;
Matches 357; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 60

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Db 100 GACGGGATCAATATGACAGAGGAATCTCCCGGTTGCTCTTCTCATCTTCCTCTTG 159
Qy 61 GCATCTCTCTGTCGCTGACCTGTCGCCGCTCCGCTGACATATATGGAATGTCGAGC 120
Db 160 GCATCTCTCTGTCGCTGACCTGTCGCCGCTCCGCTGACATATGGAATGTCGAGC 219
Qy 121 ATTACCAAGTCACCAAGTCGCCGCTGACATATGTCGTCGTCGTCGTCGTCGTCGTCG 180
Db 220 ATCTATCATCATCACAATGATGTCGCCGCTGACATATGTCGTCGTCGTCGTCGTCGTCG 279
Qy 181 ATCTTACACCTTACCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
Db 280 ATCTTACACCTTACCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 339
Qy 241 GTGGCTTAAACCTTACCGTCGCGCGCCCAATCTTCGCTCCATATATCCGTCAGC 300
Db 340 GTGGCTTAAACCTTACCGTCGCGCGCCCAATCTTCGCTCCATATATCCGTCAGC 399
Qy 301 CGGATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 360
Db 400 AGTATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 459
Qy 361 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTG 420
Db 460 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTGCTG 519
Qy 421 ACTGTCCAAAGCTGCAATGTTCCATC 447
Db 520 ACTAGCAGAGCTGCAATGTTCCATC 546
```

RESULT 7
US-09-878-281A-171

```
; Sequence 171, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; NUMBER OF FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-171
```

Query Match 67.4%; Score 301.4; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 6.5e-81;
Matches 356; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

```
Qy 1 GACGGGATCAATATGACAGAGGAATCTCCCGGTTGCTCTTCTCATCTTCCTCTTG 60
Db 100 GACGGGATCAATATGACAGAGGAATCTCCCGGTTGCTCTTCTCATCTTCCTCTTG 159
Qy 61 GCATCTCTCTGTCGCTGACCTGTCGCCGCTCCGCTGACATATATGGAATGTCGAGC 120
Db 160 GCATCTCTCTGTCGCTGACCTGTCGCCGCTCCGCTGACATATATGGAATGTCGAGC 219
Qy 121 ATTACCAAGTCACCAAGTCGCCGCTGACATATGTCGTCGTCGTCGTCGTCGTCGTCG 180
Db 220 ATCTATCATCATCACAATGATGTCGCCGCTGACATATGTCGTCGTCGTCGTCGTCGTCG 279
Qy 181 ATCTTACACCTTACCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
Db 280 ATCTTACACCTTACCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 339
Qy 241 GTGGCTTAAACCTTACCGTCGCGCGCCCAATCTTCGCTCCATATATCCGTCAGC 300
Db 340 GTGGCTTAAACCTTACCGTCGCGCGCCCAATCTTCGCTCCATATATCCGTCAGC 399
Qy 301 CGGATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 360
Db 400 AGTATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 459
Qy 361 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTGCTG 420
Db 460 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTGCTG 519
Qy 421 ACTGTCCAAAGCTGCAATGTTCCATC 447
Db 520 ACTAGCAGAGCTGCAATGTTCCATC 546
```

```
Db 340 GTAGCCTTGAACCCCAAGCTGCGCGCCCAATCTTCGCTCCATCTGATGTCAGC 399
Qy 301 CGGATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 360
Db 400 CGTATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 459
Qy 361 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTGCTG 420
Db 460 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTGCTG 519
Qy 421 ACTGTCCAAAGCTGCAATGTTCCATC 447
Db 520 ACCACCGAGAGTCGAATGTTCCACC 546
```

RESULT 8

```
US-09-878-281A-187
; Sequence 187, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; NUMBER OF FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 187
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-187
```

Query Match 67.4%; Score 301.4; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 6.5e-81;
Matches 356; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

```
Qy 1 GACGGGATCAATATGACAGAGGAATCTCCCGGTTGCTCTTCTCATCTTCCTCTTG 60
Db 100 GACGGGATCAATATGACAGAGGAATCTCCCGGTTGCTCTTCTCATCTTCCTCTTG 159
Qy 61 GCATCTCTCTGTCGCTGACCTGTCGCCGCTCCGCTGACATATATGGAATGTCGAGC 120
Db 160 GCATCTCTCTGTCGCTGACCTGTCGCCGCTCCGCTGACATATATGGAATGTCGAGC 219
Qy 121 ATTACCAAGTCACCAAGTCGCCGCTGACATATGTCGTCGTCGTCGTCGTCGTCGTCG 180
Db 220 ATCTATCATCATCACAATGATGTCGCCGCTGACATATGTCGTCGTCGTCGTCGTCGTCG 279
Qy 181 ATCTTACACCTTACCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
Db 280 ATCTTACACCTTACCAAGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 339
Qy 241 GTGGCTTAAACCTTACCGTCGCGCGCCCAATCTTCGCTCCATATATCCGTCAGC 300
Db 340 GTGGCTTAAACCTTACCGTCGCGCGCCCAATCTTCGCTCCATATATCCGTCAGC 399
Qy 301 CGGATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 360
Db 400 AGTATGTGATCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 459
Qy 361 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTGCTG 420
Db 460 CTCGCGGGGGTCCCTTCTAGTGGGACATGTTACCTTCCAGCGCGCTGCTGCTGCTG 519
Qy 421 ACTGTCCAAAGCTGCAATGTTCCATC 447
Db 520 ACTAGCAGAGCTGCAATGTTCCATC 546
```

RESULT 9
US-08-836-075A-37

; Sequence 37, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-37

Query Match 67.3%; Score 301; DB 3; Length 447;
Best Local Similarity 79.4%; Pred. No. 7,9e-81;
Matches 355; Conservative 1; Mismatches 91; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTATCTCTG 60
DB 1 GACGGGATTAATATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTATCTCTG 60
QY 61 GCACTTCTCTGCGCTGACGTGCTCCGCGCTCGGCTGAGATTAATGGAATGCTCGGAC 120
DB 61 GCACTTCTCTGCGCTGACGTGCTCCGCGCTCGGCTGAGATTAATGGAATGCTCGGAC 120
QY 121 ATTACACGTCACCAACGACGTCGCCGAATCCAGCATAGTATGATGAGTCGACATCAC 180
DB 121 ATTACACGTCACCAACGACGTCGCCGAATCCAGCATAGTATGATGAGTCGACATCAC 180
QY 181 ATCTTAACCTACCAAGGAGTGTGAACCTGTGTGAAGACTGGAACACTTGCCTGTG 240
DB 181 ATCTTAACCTACCAAGGAGTGTGAACCTGTGTGAAGACTGGAACACTTGCCTGTG 240
QY 241 GTGGCTTAACCTACCAAGGAGTGTGAACCTGTGTGAAGACTTTCGCTGATGCTGACG 300
DB 241 GTGGCTTAACCTACCAAGGAGTGTGAACCTGTGTGAAGACTTTCGCTGATGCTGACG 300
QY 301 CGGATGTGATCTGATGTGTGAGTGAAGTAACTAATCTATCTGCTCTTCTATGTTGAGAC 360

DB 301 AGTCATGTGATGTGATGTGAGTGGGGGCTGCCACTGTGTTGTCACCCCTTATCATCGGGAT 360
QY 361 CTCTGGGGGGGTGCTCTTCCAGTGGGGGAGATGTTTACCTTCCAGCGCGCTGCGCACTGG 420
DB 361 CTCTGGGGGGGTGCTCTTCCAGTGGGGGAGATGTTTACCTTCCAGCGCGCTGCGCACTGG 420
QY 421 ACTGTCCAGACTGCAACTGTTCATC 447
DB 421 ACTGTCCAGACTGCAACTGTTCATC 447

RESULT 10
US-09-878-281A-122
; Sequence 122, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 122
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
; US-09-878-281A-122

Query Match 67.1%; Score 299.8; DB 3; Length 574;
Best Local Similarity 79.4%; Pred. No. 2e-80;
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTATCTCTG 60
DB 100 GACGGGATTAATATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTATCTCTG 159
QY 61 GCACTTCTCTGCGCTGACGTGCTCCGCGCTCGGCTGAGATTAATGGAATGCTCGGAC 120
DB 160 GCACTTCTCTGCGCTGACGTGCTCCGCGCTCGGCTGAGATTAATGGAATGCTCGGAC 219
QY 121 ATTACACGTCACCAACGACGTCGCCGAATCCAGCATAGTATGATGAGTCGACATCAC 180
DB 220 ATTACACGTCACCAACGACGTCGCCGAATCCAGCATAGTATGATGAGTCGACATCAC 279
QY 181 ATCTTAACCTACCAAGGAGTGTGAACCTGTGTGAAGACTGGAACACTTGCCTGTG 240
DB 280 ATATTCACATGTCGCGGGTGTGACCTGTGTGAGGGCGGGAACGTTCTGTTGCTGG 339
QY 241 GTGGCTTAACCTACCAAGGAGTGTGAACCTGTGTGAAGACTTTCGCTGATGCTGACG 300
DB 340 ACCGCGGTAAACACTTACGAGTGTGCTGCTGATCCATGAGAGCTCCGCTCGAGTCTTCCG 359
QY 301 CGGATGTGATCTGATGTGTGAGTGAAGTAACTAATCTATCTGCTCTTCTATGTTGAGAC 360
DB 400 CGGATGTGATCTGATGTGTGAGTGAAGTAACTAATCTATCTGCTCTTCTATGTTGAGAC 459
QY 361 CTCTGGGGGGGTGCTCTTCCAGTGGGGGAGATGTTTACCTTCCAGCGCGCTGCGCACTGG 420
DB 460 CTCTGGGGGGGTGCTCTTCCAGTGGGGGAGATGTTTACCTTCCAGCGCGCTGCGCACTGG 519
QY 421 ACTGTCCAGACTGCAACTGTTCATC 447
DB 520 ACCAGCGAGATGTATGTTGCTTCATC 546

RESULT 11
US-09-878-281A-169
; Sequence 169, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:

```
; APPLICANT: Innogenetics N.V.  
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy  
; FILE REFERENCE: 35  
; CURRENT APPLICATION NUMBER: US/09/878,281A  
; CURRENT FILING DATE: 2001-06-12  
; NUMBER OF SEQ ID NOS: 284  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO: 169  
; LENGTH: 579  
; TYPE: DNA  
; ORGANISM: hepatitis C virus  
US-09-878-281A-169
```

```
Query Match 67.1%; Score 299.8; DB 3; Length 579;  
Best Local Similarity 79.4%; Pred. No. 2e-80;  
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
```

```
QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 60  
DB 100 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 159  
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120  
DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219  
QY 121 ATTACACGTCACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 180  
DB 220 GTTATACATCAACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 279  
QY 181 ATCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 240  
DB 280 ATCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 339  
QY 241 GTGGCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 300  
DB 340 GTGGCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 399  
QY 301 CGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360  
DB 400 CGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459  
QY 361 CTCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420  
DB 460 CTCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519  
QY 421 ACTGTCCAAAGCTGCACTGTTCCATC 447  
DB 520 ACCGACGAGATGTAATGCTCCATC 546
```

RESULT 12

```
US-09-878-281A-189  
; Sequence 189, Application US/09878281A  
; Patent No. 6762024  
; GENERAL INFORMATION:  
; APPLICANT: Innogenetics N.V.  
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy  
; FILE REFERENCE: 35  
; CURRENT APPLICATION NUMBER: US/09/878,281A  
; CURRENT FILING DATE: 2001-06-12  
; NUMBER OF SEQ ID NOS: 284  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO: 189  
; LENGTH: 579  
; TYPE: DNA  
; ORGANISM: hepatitis C virus  
US-09-878-281A-189
```

```
Query Match 67.1%; Score 299.8; DB 3; Length 579;  
Best Local Similarity 79.4%; Pred. No. 2e-80;  
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
```

```
QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 60  
DB 100 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 159  
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120  
DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219  
QY 121 ATTACACGTCACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 180  
DB 220 GTTATACATCAACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 279  
QY 181 ATCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 240  
DB 280 ATCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 339  
QY 241 GTGGCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 300  
DB 340 GTGGCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 399  
QY 301 CGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360  
DB 400 CGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459  
QY 361 CTCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420  
DB 460 CTCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519  
QY 421 ACTGTCCAAAGCTGCACTGTTCCATC 447  
DB 520 ACCGACGAGATGTAATGCTCCATC 546
```

RESULT 13

```
US-09-878-281A-167  
; Sequence 167, Application US/09878281A  
; Patent No. 6762024  
; GENERAL INFORMATION:  
; APPLICANT: Innogenetics N.V.  
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy  
; FILE REFERENCE: 35  
; CURRENT APPLICATION NUMBER: US/09/878,281A  
; CURRENT FILING DATE: 2001-06-12  
; NUMBER OF SEQ ID NOS: 284  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO: 167  
; LENGTH: 579  
; TYPE: DNA  
; ORGANISM: hepatitis C virus  
US-09-878-281A-167
```

```
Query Match 66.0%; Score 295; DB 3; Length 579;  
Best Local Similarity 78.7%; Pred. No. 5.5e-79;  
Matches 352; Conservative 0; Mismatches 95; Indels 0; Gaps 0;
```

```
QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 60  
DB 100 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCATCTG 159  
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120  
DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219  
QY 121 ATTACACGTCACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 180  
DB 220 GTTATACATCAACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 279  
QY 181 ATCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 240  
DB 280 ATCTTACACCTACCAAGCACTGCGGAACTGATGATGATGATGATGATGATGATGATG 339
```

QY 241 GTGGCTTAAACCTACCTGCGCGCCCATCTTCCGCTCACTTAATGTCGTAAGC 300
 Db 340 GTGGCCCTCACTCCACAGTAGCTGCGCATACCGCGGTGCTCCGCTTGAAGCCCTTGC 399
 QY 301 CGGATGTGATCTGATGTGTGGTGGACAGTACCTTAATGTCGCTCTTAAGTGAAGAC 360
 Db 400 GGTATGTGACCTGATGTGTGGTGGACAGTACCTTAATGTCGCTCTTAAGTGAAGAC 459
 QY 361 CTCTGCGGGGGTGCCTCTAGTGGGAGATGTTCACTTCCAGCCGCGTGGCACTGG 420
 Db 460 TTGTGCGGTGCTTATCTTGTGTGGGCAATGTTCACTTCCAGCCGCGTGGCACTGG 519
 QY 421 ACTGTCCAGACTGCAACTGTTCCATC 447
 Db 520 ACCACTCAGAGCTGCATTTGTTCCATC 546

RESULT 14

US-08-836-075A-35
 ; Sequence 35, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; TITLE OF INVENTION: AGENTS
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DUNKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION NUMBER: US/08/836,075A
 ; FILING DATE: 21 Apr 1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/BP95/04155
 ; FILING DATE: 23 Oct 1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 94870166.9
 ; FILING DATE: 21 Oct 1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 95870076.7
 ; FILING DATE: 28 Jun 1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: KAMMERER, PATRICIA A.
 ; REGISTRATION NUMBER: 29,775
 ; REFERENCE/DOCKET NUMBER: INNS:004
 ; INFORMATION FOR SEQ ID NO: 35:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 447 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; HYPOTHEICAL: NO
 ; ANTI-SENSE: NO
 ; US-08-836-075A-35

Query Match 65.6%; Score 293.4; DB 3; Length 447;
 Best Local Similarity 77.9%; Pred. No. 1.5e-78;
 Matches 348; Conservative 4; Mismatches 95; Indels 0; Gaps 0;
 QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTGCTCTTCTATCTTCATCTG 60
 |||
 Db 340 GTGGCCCTCACTCCACAGTAGCTGCGCATACCGCGGTGCTCCGCTTGAAGCCCTTGC 399

Db 1 GACGGATCAATTATGCAACAGGAAATATCCGGTGTCTTTTCTATCTTCTTGTG 60
 QY 61 GCACTTCTCTGCGCTGACTGTGCCGCTCGGCTCAGCATATATGGAATGTCTGGGC 120
 Db 61 GCACTTCTCTGCGTGTGACTGTGCCGCTCGGCTCAGCATATATGGAATGTCTGGGC 120
 QY 121 ATTACACAGTCAACAGACTGCGGAACTCCAGATATGTATAGTCCAGCATCAC 180
 Db 121 ATTACACAGTCAACAGACTGCGGAACTCCAGATATGTATAGTCCAGCATCAC 180
 QY 181 ATCTTACACTTACAGAGGTGTGACCTCTGTGTAAACATGGAACACTTGGCCTCTGG 240
 Db 181 ATCTTACACTTACAGAGGTGTGACCTCTGTGTAAACATGGAACACTTGGCCTCTGG 240
 QY 241 GTGGCCCTTAAACCTACCGTGGCGGCCCATCTTCCGCTCACTTAATGTCGTAAGC 300
 Db 241 GTGGCCCTTAAACCTACCGTGGCGGCCCATCTTCCGCTCACTTAATGTCGTAAGC 300
 QY 301 CGGATGTGATCTGATGTGTGGTGGACAGTACCTTAATGTCGCTCTTAAGTGAAGAC 360
 Db 301 AGTCATGTGATCTGATGTGTGGTGGACAGTACCTTGTTCAGCCCTTAAATCGGGAG 360
 QY 361 CTCTGCGGGGGTGCCTTCTAGTGGGAGATGTTCACTTCCAGCCGCGTGGCACTGG 420
 Db 361 TTGTGTGGGCGCTTGTCTTGTGGTGGTCAATGTTCTTTCATGAGCTTGGCGCACTGG 420
 QY 421 ACTGTCCAGACTGCAACTGTTCCATC 447
 Db 421 ACTACCGAGATTGCAATGTTCCATC 447

RESULT 15

US-09-878-281A-185
 ; Sequence 185, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 185
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-185

Query Match 65.6%; Score 293.4; DB 3; Length 579;
 Best Local Similarity 78.5%; Pred. No. 1.7e-78;
 Matches 351; Conservative 0; Mismatches 96; Indels 0; Gaps 0;
 QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTGCTCTTCTATCTTCATCTG 60
 Db 100 GACGGATCAATTATGCAACAGGAACTCCCGGTGCTCTTCTATCTTCATCTG 159
 QY 61 GCACTTCTCTGCGCTGACTGTGCCGCTCGGCTCAGCATATATGGAATGTCTGGGC 120
 Db 160 GCACTTCTCTGCGCTGACTGTGCCGCTCGGCTCAGCATATATGGAATGTCTGGGC 219
 QY 121 ATTACACAGTCAACAGACTGCGGAACTCCAGATATGTATAGTCCAGCATCAC 180
 Db 220 GTCTACACAGTCAACAGACTGCGGAACTCCAGATATGTATAGTCCAGCATCAC 279
 QY 181 ATCTTACACTTACAGAGGTGTGACCTCTGTGTAAACATGGAACACTTGGCCTCTGG 240
 Db 280 ATCTTACACTTACAGAGGTGTGACCTCTGTGTAAACATGGAACACTTGGCCTCTGG 339
 QY 241 GTGGCCCTTAAACCTACCGTGGCGGCCCATCTTCCGCTCACTTAATGTCGTAAGC 300
 Db 340 GTGGCCCTTAAACCTACCGTGGCGGCCCATCTTCCGCTCACTTAATGTCGTAAGC 399

QY 301 CGGCATGTGATCTGATGTTGGTGCAGCTACCTTATGTCGCTCTAAGTTGAGAC 360
 Db 400 AGACACGTGGACATGATGTTGGGCGCTGTACTGTGTCTCCGCTCTTATATTGGGAC 459
 QY 361 CTCTGCGGGGGTGCCTTCTTCTAGTGGGGCAGATGTTCACTTCCAGCCGCTGCACTGG 420
 Db 460 TTGTGTGGTGGCGTATTCTTGTGTGTCAGATGTTTCTTCCGGCCACGACGCACTGG 519
 QY 421 ACTGTCCAAGACTGCACTGTTCCATC 447
 Db 520 ACTACGCAAGACTGCAATTGTTCCATC 546

Search completed: January 11, 2006, 04:37:58
 Job time : 112.089 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 : Search time 231.737 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-41

Perfect score: 957

Sequence: 1 atgagcagcaccctccaaacc.....tcacgggacacagatgcga 957

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

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8: /cgn2_6/prodata/1/ina/RE COMB.seq: *
9: /cgn2_6/prodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	953	99.6	957	3	US-08-836-075A-41
2	642.4	67.1	957	3	US-08-836-075A-43
3	625.4	65.4	957	3	US-08-836-075A-47
4	548.8	57.3	1167	2	US-08-324-977-9
5	548.8	57.3	1167	2	US-08-384-616-9
6	548.8	57.3	1167	2	US-08-904-686A-9
7	548.8	57.3	1167	2	US-09-315-850-9
8	548.8	57.3	1499	2	US-08-324-977-3
9	548.8	57.3	1499	2	US-08-384-616-3
10	548.8	57.3	1499	2	US-08-904-686A-3
11	548.8	57.3	1499	2	US-09-315-850-3
12	548.8	57.3	6039	2	US-08-324-977-11
13	548.8	57.3	6039	2	US-08-384-616-11
14	548.8	57.3	6039	2	US-08-904-686A-11
15	548.8	57.3	6039	2	US-09-315-850-11
16	548.8	57.3	9030	2	US-08-324-977-13
17	548.8	57.3	9030	2	US-08-384-616-13
18	548.8	57.3	9030	2	US-08-904-686A-13
19	548.8	57.3	9030	2	US-09-315-850-13
20	548.8	57.3	9416	2	US-08-324-977-1
21	548.8	57.3	9416	2	US-08-384-616-1
22	548.8	57.3	9416	2	US-08-904-686A-1
23	548.8	57.3	9416	3	US-09-315-850-1
24	548.8	57.3	9416	3	US-08-823-895A-27

25	548.2	57.3	1539	2	US-08-470-426B-16	Sequence 16, Appl
26	548.2	57.3	1863	2	US-08-470-426B-13	Sequence 13, Appl
27	543.4	56.8	9416	3	US-08-823-895A-26	Sequence 26, Appl
28	543.4	56.8	9416	3	US-10-104-966-13	Sequence 13, Appl
29	543.4	56.8	9416	3	US-09-929-955-13	Sequence 13, Appl
30	543.4	56.8	9599	3	US-09-014-416-2	Sequence 2, Appl
31	543.4	56.8	9646	3	US-08-811-566-1	Sequence 1, Appl
32	543.4	56.8	9646	3	US-09-034-756-1	Sequence 1, Appl
33	543.4	56.8	10803	3	US-10-259-275-17	Sequence 17, Appl
34	541.8	56.6	9365	3	US-09-827-688-7	Sequence 7, Appl
35	541.8	56.6	12980	3	US-08-811-566-5	Sequence 5, Appl
36	541.8	56.6	12980	3	US-09-034-756-5	Sequence 5, Appl
37	539.2	56.3	1037	2	US-08-462-195-1	Sequence 1, Appl
38	539.2	56.3	1037	2	US-08-636-883-1	Sequence 1, Appl
39	539.2	56.3	1037	2	US-09-127-829-1	Sequence 1, Appl
40	537.6	56.2	2116	3	US-08-191-160-21	Sequence 21, Appl
41	537.6	56.2	9472	3	US-08-150-204B-96	Sequence 96, Appl
42	536	56.0	2433	3	US-08-612-973-49	Sequence 49, Appl
43	536	56.0	2433	3	US-08-927-597-49	Sequence 49, Appl
44	536	56.0	2433	3	US-08-928-757-49	Sequence 49, Appl
45	536	56.0	9595	3	US-09-014-416-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-41
Sequence 41, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSER: ARNOLD WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: RP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: BP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-41

Query Match 99.6%; Score 953; DB 3; Length 957;
Best Local Similarity 100.0%; Pred. No. 1.2e-289;
Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
DB 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
QY 61 GACGTCAAGTTCCCGGCGCGCGCAGATGTTGAGTTACTTTGTCGCGCAGG 120
DB 61 GACGTCAAGTTCCCGGCGCGCGCAGATGTTGAGTTACTTTGTCGCGCAGG 120
QY 121 GGCCTGCTGGGTGGCGCGGAGAAAAGCCCGAAGGTCGCCAGCTAGAGGC 180
DB 121 GGCCTGCTGGGTGGCGCGGAGAAAAGCCCGAAGGTCGCCAGCTAGAGGC 180
QY 181 AGCGCGCAGCCATACCAAGATAGCGCAGCCGAGCGGTAGCTGGGTCAACCCGGC 240
DB 181 AGCGCGCAGCCATACCAAGATAGCGCAGCCGAGCGGTAGCTGGGTCAACCCGGC 240
QY 241 TACCTTGGCCCTTTATGCGAAGAGGCTGCGATGGCGGATGGCTCTGTCGCC 300
DB 241 TACCTTGGCCCTTTATGCGAAGAGGCTGCGATGGCGGATGGCTCTGTCGCC 300
QY 301 CGGCGGTGCTGCTCTATTTGGGGCGCCCAAGACCCCGGAGAGTCCGCCACTGGGT 360
DB 301 CGGCGGTGCTGCTCTATTTGGGGCGCCCAAGACCCCGGAGAGTCCGCCACTGGGT 360
QY 361 AAGGTATCATATACCTTATATGCGCTAGCCGACCTCATGGGGTATCATCTCTGCTCA 420
DB 361 AAGGTATCATATACCTTATATGCGCTAGCCGACCTCATGGGGTATCATCTCTGCTCA 420
QY 421 GGAAGGCGCTTGGCGGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTG 480
DB 421 GGAAGGCGCTTGGCGGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTG 480
QY 481 GGGGTCAATTAACGAAGAAGAACTTCTGCTGCTCTCTTCTATCTCTCTTACGA 540
DB 481 GGGGTCAATTAACGAAGAAGAACTTCTGCTGCTCTCTTCTATCTCTCTTACGA 540
QY 541 CTGTTATCGTCTCACTACACAGCTCAGCAATTCAGTCAAGAGCGCTCTGGATC 600
DB 541 CTGTTATCGTCTCACTACACAGCTCAGCAATTCAGTCAAGAGCGCTCTGGATC 600
QY 601 TACCATTTACCAATGACTGCTGCAACAACGATCGTTTGAAGCGGAGACCATGATA 660
DB 601 TACCATTTACCAATGACTGCTGCAACAACGATCGTTTGAAGCGGAGACCATGATA 660
QY 661 CTGCAATTTCCAGGTTGTCCTCAATGATCAAGGCGGGAATGATGATGTTGGCTC 720
DB 661 CTGCAATTTCCAGGTTGTCCTCAATGATCAAGGCGGGAATGATGATGTTGGCTC 720
QY 721 CCTGTCTCCCCCAGCTTAGCGCTCCCACTCATGATGCAATCCAGGGTTTCGCGCA 780
DB 721 CCTGTCTCCCCCAGCTTAGCGCTCCCACTCATGATGCAATCCAGGGTTTCGCGCA 780
QY 781 CAGGTAGACTCTCCCTGTTGGGGGAGCGGCAATTTGTTGCGCAATGAGAGACTC 840
DB 781 CAGGTAGACTCTCCCTGTTGGGGGAGCGGCAATTTGTTGCGCAATGAGAGACTC 840
QY 841 TGGGTAGCAATATCTTGGTGAAGGCACTTTTACTTTAGGCTTAAGTACANTCAGGTT 900
DB 841 TGGGTAGCAATATCTTGGTGAAGGCACTTTTACTTTAGGCTTAAGTACANTCAGGTT 900
QY 901 ACCCAGGATTTGTAATCTCTATTAACNCTGGCCACGTCAGGGGACACAGATGGCA 957
DB 901 ACCCAGGATTTGTAATCTCTATTAACNCTGGCCACGTCAGGGGACACAGATGGCA 957

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RESULT 2

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US-08-836-075A-43
; Sequence 43, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; FILING DATE: 21 Apr 1997
; APPLICATION NUMBER: US/08/836,075A
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-43

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Query Match 67.1%; Score 642.4; DB 3; Length 957;
Best Local Similarity 78.8%; Pred. No. 8.4e-192;
Matches 754; Conservative 2; Mismatches 201; Indels 0; Gaps 0;

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QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
DB 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
QY 61 GACGTCAAGTTCCCGGCGCGCGCAGATGTTGAGTTACTTTGTCGCGCAGG 120
DB 61 GACGTCAAGTTCCCGGCGCGCGCAGATGTTGAGTTACTTTGTCGCGCAGG 120
QY 121 GGCCTGCTGGGTGGCGCGGAGAAAAGACCTCCGAAAGCTGCCAGCTTAGAGGC 180
DB 121 GGCCTGCTGGGTGGCGCGGAGAAAAGACCTTCGAAAGCTTCGAAAGCTTCGAAAGG 180
QY 181 AGCGCGCAGCCATACCAAGATAGCGCAGCCGAGCGGTAGCTGGGTCAACCCGGC 240
DB 181 AGCGCGCAGCCATACCAAGATAGCGCAGCCGAGCGGTAGCTGGGTCAACCCGGC 240
QY 241 TACCTTGGCCCTTTATGCGAAGAGGCTGCGATGGCGGATGGCTCTGTCGCC 300
DB 241 TACCTTGGCCCTTTATGCGAAGAGGCTGCGATGGCGGATGGCTCTGTCGCC 300

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Qy	301	CGCGGAGTCTCGTCTTAATTTGGGGCCCCCAAGACACCCCGGGAAGATCCCGCAACTTGGGT	360
Db	301	CGCGGCTTCGCCCCAAATTTGGGGCCCCAAAGACACCCCGGGAAGATCCCGCAACTTGGGT	360
Qy	361	AAGTCATCGATACCCCTTAATTCGATTCGAGTACCGGACCTCAATGGGGTATACCTCTGTCTTA	420
Db	361	AAAGTCATCGACACCTTACTTGTGGGCTTGCGCGACCTCAATGGGGTATATCCCTGTCTTA	420
Qy	421	GGAGGGCCGCTTGGCGGCGTTTGCGGCTGGCCCTGGCGCATGGCCTTAGGGCATCGAGAC	480
Db	421	GGCGCTCCGWTGGGAGGCGTTCGCGNMGCTTTGGCGCATGGGGTTCANMGATTCGAGGAC	480
Qy	481	GGGGTCATTAACGCAACGGGAATCTTCGTTGGTCTCTTTCTTCACTTCCCTTATAGA	540
Db	481	GGAGTAATTAACGCAACGGAATCTTCCGAGNNGCTTCTTCTTATCTTCTTGGGA	540
Qy	541	CTGTATTCGTGCTCAGTACACAGCCTCAGCAATTCAGTCAAGACGCTCTGGGATC	600
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Qy	601	TACCATCTTACCAATGACTGCTCGAACACAGCATGTTTTTGGGCGGAGACATGATA	660
Db	601	TACCATCTTACCAACGACTGCCCAACAGACGATGTTATAGAGCGGAGACACTGATT	660
Qy	661	CTGATCTTCCAGGTTGTGCCATGTATGAAGCGGGGAATAGTCAAGATTTGGCTC	720
Db	661	TTGCACTTCCCTGGGTGTGTACTTGTGTAAATGTAAATCCCGGTCTGGGGTG	720
Qy	721	CCTGTCTCCCACTTACGCGTCCCACTCATCAATGTCGCAATTCACGGGTTTGGCDA	780
Db	721	CAGGCTCTCCCGACCTTCGCAAGTCCGAAGCGCTTACAGCAGTACACCGGTTCCGCAAA	780
Qy	781	CACGTAGACCTCTCTGTGGGGGAGCGGCAATTTGTTGGGCATGTACATCGGAGCTTC	840
Db	781	CATGTGACATCATGTGGGCGCTGCGCGTCTGTTCAGCTATGTATGTGGGGGACCTG	840
Qy	841	TGTGTGATCAATCTTGTGTAGGCACTTTTATCTTCAAGCCTTAAGTACATCAGGTT	900
Db	841	TGCGGGGCGCTTCTTCCCTGTGGGACAGCTCTTACAGCTCAAGGCTTGAGTATCAGGTT	900
Qy	901	ACCAGGATTTGTAATCTCTCTATTAACNTGTGGCAGTCAAGGGACACAGATGGCA	957
Db	901	GTCAGAGATGTAACTTTCATCTTACACAGGGCATATCACTGGAACCGAATGGCA	957

RESULT 3
 US-08-836-075A-47
 : Sequence 47, Application US/08836075A
 : Patent No. 6180768
 :
 : GENERAL INFORMATION:
 : APPLICANT: MAERTENS, GEERT
 : APPLICANT: STUYVER, LIEVEN
 : TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 : TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 : NUMBER OF SEQUENCES: 207
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: ARNOLD, WHITE & DURKEE
 : STREET: P. O. BOX 4433
 : CITY: HOUSTON
 : STATE: TEXAS
 : COUNTRY: USA
 : ZIP: 77210-4433
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Microsoft Word 6.0 / ASCII text output
 : CURRENT APPLICATION DATA:
 : FILING DATE: 21 Apr 1997
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: PCT/EP95/04155

[illegible]

QY 721 CTTGTCTCCCCCACTTACCGCTGCCCACTCATCACTGCGCAATCCAGGGTTTCGCCGA 780
 Db 721 TCGGCGCTCCCCGACATTTGGGGGTCGACAAATGCGCGGTGTCATCAGGGGTGTCGCCGAG 780
 QY 781 CACGTAGACCTCTCTGTTGGGCGACGGGCAATTTGTTGGCCCATGTACATCGAGACCTC 840
 Db 781 CACGTGACCTCTTGGGTGGGTGCTGCGTTCGCTCGCCCATGTACGTGGGCGACTTA 840
 QY 841 TGTGTAGCAATTAATCTTGTAGGCGACCTTTTACTTTCAGCGCCTAGTACCATCAGGT 900
 Db 841 TGGGTTGGGCTCTTCTGTTGGGCACTGTTCAGCTTCAGACCCAGATGTATGAGATC 900
 QY 901 ACCCAGATTGTAATCTGCTATTAACNCTGCGCACGCTCACGGGACACAGGATGAC 956
 Db 901 GCCCAGACTGCACTGTTCTCATCTATGACGGCCACATCACTGGGACACCGGATGAC 956

RESULT 4
 US-08-324-977-9
 ; Sequence 9, Application US/08324977
 ; Patent No. 5747339
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44mb
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/324,977
 ; FILING DATE: 18-OCT-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/099,706
 ; FILING DATE: 30-JUL-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Stevens-Smith, Theresa M.
 ; REGISTRATION NUMBER: 36,281
 ; REFERENCE/DOCKET NUMBER: 900703D
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; TELEX: 440142

; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: CDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 1..1167
 ; OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 ; OTHER INFORMATION: SEQ ID NO: 1"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-08-324-977-9

Query Match 57.3%; Score 548.8; DB 2; Length 1167;
 Best Local Similarity 73.2%; Pred. No. 2.9e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCAAACCCCAAGAAAGAAATTAATCAACGTCGCCCTATG 60
 Db 1 ATGAGCACAAATCTTAACCTCAAGAAAGAAAGTAAACCAACGTCGCCCTACAG 60
 QY 61 GACGTCAAGTCCCGGGCGGCGGCGAGATCGTTGTGAGATTACTTGTTCGCGCAGG 120
 Db 61 GACGTCAAGTCCCGGGCGGCGGCGAGATCGTTGTGAGATTACTTGTTCGCGCAGG 120
 QY 121 GGCCTCTGTTGGGTGTGCGCGGCGAGAAAGACTCCGAACGCTCCAGCCTTAGAGCC 180
 Db 121 GGCCTCTGTTGGGTGTGCGCGGCGAGAAAGACTCCGAACGCTCCAGCCTTAGAGCC 180
 QY 181 AGCGCGCAAGCCATACCAAGGTAAGCGCGAGCGGAGCTGAGGCTGAACCCGCGC 240
 Db 181 AGCGCGCAAGCTATCCCAAGGTCGCGCGCGCGAGGAGGAGCTGAGGCTGAACCCGCGC 240
 QY 241 TACCTTTGGCCCCCTTTATGGAAGGCGGCGGAGATGAGCTCTGTCCTCC 300
 Db 241 TACCTTTGGCCCCCTTTATGGAAGGCGGCGGAGATGAGGCTTGAAGGATGCTCTGTCACCC 300
 QY 301 CGCGGCTCTGCTCTTAATTGGGGCCCCAAGACCCCGCGAGAAAGTCCCGCAATTGGGCT 360
 Db 301 CGCGGCTCTGCTCTTAATTGGGGCCCCAAGACCCCGCGAGAAAGTCCCGCAATTGGGCT 360
 QY 361 AAGGTATGATGATACCTTATCATTCGAGTACGAGCTGATGAGGAGTATCCCTGCTCA 420
 Db 361 AAGGTATGATGATACCTTATCATTCGAGTACGAGCTGATGAGGAGTATCCCTGCTCA 420
 QY 421 GGAGGGCCGCTTGGCGGCGTGGCGCTGCGCATGCGTTCGAGGCAATCGAGGAC 480
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 QY 481 GGGGTCAATTACGCAACAGGGAATCTTCTGTGCTCTTTCTTATCTTCTCTTACGA 540
 Db 481 GGGGTCAATTACGCAACAGGGAATCTTCTGTGCTCTTTCTTATCTTCTCTTACGA 540
 QY 541 CGGTATCGTGGCTCTACACAGGCTCGAATTCAGTCAAGAAAGCGCTCTGGGATC 600
 Db 541 CGGTATCGTGGCTCTACACAGGCTCGAATTCAGTCAAGAAAGCGCTCTGGGATC 600
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 Db 601 TACCATCTTAACCAATAGTGTGGAACAACAGCATCGTTTGGGCGGAGACATGATA 660
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 Db 661 ATGCAATATCTCGGGGCGGCGCTGCTGTTGGGAGGCAACTCTCCGCTGCTGGGTA 720
 QY 721 CTTGTCTCCCCCACTTACCGCTGCCCACTCATCACTGCGCAATCCAGGGTTTCGCCGA 780
 Db 721 CTTGTCTCCCCCACTTACCGCTGCCCACTCATCACTGCGCAATCCAGGGTTTCGCCGA 780

QY 781 CAGGTAGACCTCTCTGTTGGGGCAGCGGCAATTTTGTTCGGCCATGTATCATCGAGACCTC 840
 Db 781 CAGGTAGACCTCTCTGTTGGGGCAGCGGCAATTTTGTTCGGCCATGTATCATCGAGACCTC 840
 QY 841 TGTGTGACATATCTTGTGTGGGACCTTTTACTTTCAGGCTTAAGTACATCAGGTT 900
 Db 841 TGTGTGACATATCTTGTGTGGGACCTTTTACTTTCAGGCTTAAGTACATCAGGTT 900
 QY 901 ACCGAGATTGTAACTGCTCTATTAACNCTGGCCAGCTCAAGGACACAGAGATGC 956
 Db 901 TTACAGACTGTAACTGCTCTATTAATCCGCGCATGTGTGGGTACCGTATGCG 956

RESULT 5
 US-08-384-616-9
 ; Sequence 9, Application US/08384616
 ; Patent No. 5847101
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; ADDRESS: Naughton
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/384,616
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Stevens-Smith, Theresa M.
 ; REGISTRATION NUMBER: 36,281
 ; REFERENCE/DOCKET NUMBER: 900703B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; TELEX: 440142
 ; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:

NAME/KEY: misc_feature
 LOCATION: 1..1167
 OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 OTHER INFORMATION: SEQ ID NO: 1"
 NAME/KEY: CDS
 LOCATION: 1..1167
 US-08-384-616-9
 Query Match 57.3%; Score 548.8; DB 2; Length 1167;
 Best Local Similarity 73.2%; Pred. No. 2,9e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;
 QY 1 ATGAGCACACTTCCAAACCCCAAGAAAACCAAAAGAAATCTAATCCGTGCGCTTANG 60
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 QY 181 AGCGCCAGCCCAATCAAGAGTACGCGACGACGAGCGGTAGCTGGGGTCAACCGGC 240
 Db 181 AGCGCCAGCCCAATCAAGAGTACGCGACGAGCGGTAGCTGGGGTCAACCGGC 240
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 QY 301 CGGGGTCTGCTCTAATTTGGGGCCCCAAGACACCCCGCGAAGTCCGCAACTGGGT 360
 Db 301 CGGGGTCTGCTCTAATTTGGGGCCCCAAGACACCCCGCGAAGTCCGCAACTGGGT 360
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 QY 541 CTGTTATCGGCTCACTACACAGGCTCAGCAATTCAGTCAAGTCAAGAACGCTCTG 600
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QY 901 ACCGAGATTGTAAGTCTCTATTAACNCTGGCCACGTCACGGACACAGATGCG 956
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RESULT 6
 US-08-904-686A-9
 ; Sequence 9, Application US/08904686A
 ; Patent No. 5998130
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
 ; ADDRESSEE: Naughton
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/904,686A
 ; FILING DATE: 01-AUG-1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/324,977
 ; FILING DATE: 18-OCT-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/099,706
 ; FILING DATE: 30-JUL-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Mclelland, Le-Nhung
 ; REGISTRATION NUMBER: 31,541
 ; REFERENCE/DOCKET NUMBER: 900703G
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 1..1167
 ; OTHER INFORMATION: /note: "sequence = 333 - 1499 of

OTHER INFORMATION: SEQ ID NO: 1"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-08-904-686A-9
 Query Match 57.3%; Score 548.8; DB 2; Length 1167;
 Best Local Similarity 73.2%; Pred. No. 2.9e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;
 QY 1 ATGAGCAGACTTCGCAAAACCCCAAGAAAAAATCTAACCTGCGCCCTAG 60
 Db 1 ATGAGCAGCAATCCTTAACCTCAAAAGAAAAAGCAACCAACCGCCGACAG 60
 QY 61 GAGTCAGATCCCGGCGGCGGCGAGATCGTTGGTGAATTAATTGTTGCGCGCAG 120
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 Db 121 GGGCCAGGTTGGGTGCGCGGAGAGAGAAACCTCGAACGTCCTCCAGCTAGAGGC 180
 QY 181 AGGCGCCAGCCCATACCAAGGTAAGCCGACGCGGCGGAGCTGAGCTGAGGCTCA 240
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 QY 241 TACCTTGGCCCTTATGAGCAACGAGGCTGGAGTGGGCGGAGATGCTCTGTCGCC 300
 Db 241 TACCTTGGCCCTTATGAGCAATGAGGCTTATGAGTGGGCGGAGATGCTCTGTCGCC 300
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 Db 301 CGGCGGCTCCCGGCTAGTTGGGGCCCAAGAGACCCCGGCGAAGGTCCGCTGCTG 360
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 QY 661 CTGCAATCTTCAGGTTGTGTCCCATGTATCAAGGCGGGAATGATGACGATTTGGCTC 720
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RESULT 7

US-09-315-850-9
 Sequence 9, Application US/09315850
 Patent No. 6217872
 GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKU, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/315, 850
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/904, 686
 FILING DATE: 01-AUG-1997
 APPLICATION NUMBER: US/08/324, 977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/099, 706
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769, 996
 FILING DATE: 02-OCT-1991
 APPLICATION NUMBER: US 07/635, 451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Mclelland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 900703G
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1167 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 1..1167
 OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 OTHER INFORMATION: SEQ ID NO: 1"

FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1167
 US-09-315-850-9
 Query Match 57.3%; Score 548.8; DB 3; Length 1167;
 Best Local Similarity 73.2%; Pred. No. 2,9e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

1 ATGAGCACTTCCAAACCCCAAGAAAACCAAGAAATCTAAGCGTGCCTTATG 60
 1 ATGAGCAAGATCTTAACCTCAAGAAAACCAAGTAACCAACGCGCCACAG 60
 61 GACGTCAAGTCCCGGCGCGCGCAGATCGTTGTGAGTTACTTGTTCGCGCAG 120
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RESULT 8
US-08-324-977-3
; Sequence 3, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Tawo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
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US-08-324-977-3

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Query Match      57.3%; Score 548.8; DB 2; Length 1499;
Best Local Similarity 73.2%; Pred. No. 3.3e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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QY      181 AGCGCCAGCCCTTACCAAAAGTAAGCCGACGCGACAGGCGGTAGCTGGGGTCAACCCGCG 240
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QY      241 TACCTTGGCCCTTATAGCAACGAGGCTGCGAGTGGGCGGGAATGCTCTGTCGCC 300
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QY      301 CGCGGATCTGCTTAATTGGGCGCCCAAGAACCCCGGAGAGGTCCGCAACTTGAGT 360
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DB      933 TATCATGTACGAACGATGCTTCAACGCAAGCATGTGTATAGGCAAGGACCTGAT 992
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QY      721 CTGTCTCCCGCACCTTAAGCGGTCCCACTCATAGTGTCAATCCAGGGTTTCGCC 780
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RESULT 9
US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101

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GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, McIeland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
US-08-384-616-3

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Query Match 57.3%; Score 548.8; DB 2; Length 1499;
Best local Similarity 73.2%; Pred. No. 3.3e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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DB 873 CTGTATCGTCCCTGCTCAACAGGCTTGGCAATTCAGTCAAGAAAGCTTGGGATC 932
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QY 721 CCGTCTCCCGCCCACTTACCGCTTCCCACTATCATGATGCTTCCAGGTTTCCCGCA 780
DB 1053 GCGCTCATCTCCCACTTACCGCTTCCCACTATCATGATGCTTCCAGGTTTCCCGCA 1112
QY 781 CACGTAGACCTCTGCTTGGGCGGCGGCAATTTGTTGGGCGGCAATGATGCGGACCTC 840
DB 1113 CACGTAGACCTCTGCTTGGGCGGCGGCAATTTGTTGGGCGGCAATGATGCGGACCTC 1172
QY 841 TGTGTAGCATATCTTGTGTAGGCGGCTTGTATCTTGTGAGGCTTGTATGATGATGATG 900
DB 1173 TGTGTAGCATATCTTGTGTAGGCGGCTTGTATCTTGTGAGGCTTGTATGATGATGATG 1232
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RESULT 10
US-08-904-686A-3
Sequence 3, Application US/08904686A
Patent No. 5998130
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE

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; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
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; US-08-904-686A-3
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Query Match 57.3%; Score 548.8; DB 2; Length 1499;
Best Local Similarity 73.2%; Pred. No. 3.3e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;
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QY 361 AAGTCATGATACCTTATCATNCGNCTAGCCGACTGATGGGTACATCCCTGTCTA 420
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DB 753 GCGCGCCCGCTGGGCGCGCTGCGCATGGCGCTGGCATGTGTCCGGGTTCGAGAGAC 812
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DB 1113 CAGTGAACCTCTCTGTTGGGCGAGCGGATTTTTCGCGCATATCATCGAAGCTC 1172
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DB 1173 TGTGTAGCATATCTTGTAGGCGAGCTTTTACTTTAGGCTTAAGTACATCAGGTT 1232
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DB 1233 TTACAGGACTGATGCTCAATTTATCCGCGCATGTGTGCGGTACCGTATGAC 1288
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RESULT 11
US-09-315-850-3
; Sequence 3, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
;

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ADDRESS: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315, 850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904, 686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US/08/324, 977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099, 706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769, 996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635, 451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-09-315-850-3
Query Match 57.3%; Score 548.8; DB 3; Length 1499;
Best Local Similarity 73.2%; Pred. No. 3.3e-167;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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QY 301 CGCGGCTCTGCTCTAAATGGGGCCCAACGACCCCGCGCAAGATCCGCACTGGGT 360
DB 633 CGCGGCTCTGCTCTAAATGGGGCCCAACGACCCCGCGCAAGATCCGCACTGGGT 692
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RESULT 12
US-08-324-977-11
Sequence 11, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chiaki
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
ADDRESSEE: Naughton

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STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-324-977-11

Query Match 57.3%; Score 548.8; DB 2; Length 6039;
Best Local Similarity 73.2%; Pred. No. 7,1e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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QY 121 GGGCCCTCGTTGGGTGTGCGCGCGAGAAAGACCTCCGAACGGTCCGACGCTGAGAGC 180
DB 121 GGGCCCAAGTTGGGTGTGCGCGCGCGAGAAAGACTTCCGACGGGTCCGAACTGTGGA 180
QY 181 AGGCGCAGCCCATACCAAAAGGTACGCCAGCCGACGCGCTGAGCTGGGGTCAACCCGAC 240

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RESULT 13
US-08-384-616-11
Sequence 11, Application US/08384616
Patent No. 5847101
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Iwao
APPLICANT: MORI, Chiaki
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0357
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-384-616-11

Query Match 57.3%; Score 548.8; DB 2; Length 6039;
Best Local Similarity 73.2%; Pred. No. 7,1e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

QY 1 ATGACGACACTTCCAAACCCCAAGAAACCAAGAAATATCTAACCGTCCCTATG 60
DB 1 ATGACGACGAAATCTTAAACCTCAAGAAACCAAGAAATATCTAACCGTCCCTATG 60
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QY 841 TGTGTAGCATTAATCTTGTGAGGACGCTTTTAACTTGAAGCCTTAAGTACATCAGGTT 900
DB 841 TGTGTAGCATTAATCTTGTGAGGACGCTTTTAACTTGAAGCCTTAAGTACATCAGGTT 900
QY 901 ACCGAGATTGTACTGCTCTATTAACATGAGGCAAGTCAAGGACGAGACAGATGAC 956
DB 901 TTAGAGACTGTACTGCTCTATTAACATGAGGCAAGTCAAGGACGAGATGAC 956

RESULT 14
US-08-904-686A-11
Sequence 11, Application US/08904686A
Patent No. 5998130
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroko
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chiaki
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997


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? APPLICATION NUMBER: US 08/324,977
? FILING DATE: 18-OCT-1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 2-167466
? FILING DATE: 25-JUN-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 2-230921
? FILING DATE: 31-AUG-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 2-305605
? FILING DATE: 09-NOV-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/099,706
? FILING DATE: 30-JUL-1993
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/769,996
? FILING DATE: 02-OCT-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/635,451
? FILING DATE: 28-DEC-1990
? ATTORNEY/AGENT INFORMATION:
? NAME: McEland, Le-Nhung
? REGISTRATION NUMBER: 31,541
? REFERENCE/DOCKET NUMBER: 900703G
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (202) 659-2930
? TELEFAX: (202) 887-0357
? INFORMATION FOR SEQ ID NO: 11:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 6039 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA from genomic RNA
? FEATURE:
? NAME/KEY: misc feature
? LOCATION: 1..6039
? OTHER INFORMATION: /note: "sequence = 333 - 6371 of
? OTHER INFORMATION: SEQ ID NO: 1"
? FEATURE:
? NAME/KEY: CDS
? LOCATION: 1..6039
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OY	421	GGAGGGCCGCTTGGCGGCGCTTTCGCGCTCCCTGGCGCATGCGCTTAAAGGCAATCGAGAC	480
Db	421	GGGGCCCCCTGGGGGGGGCGCTCCAGAGGCGCTGGGCAATAGTGTGCGGGTTCTGGAGAC	480
OY	481	GGGGTCAATTAAGCAACAGGGAATCTTCTGAGTGTCTCTTTCTAATCTTCTCTTAGCA	540
Db	481	GGGGTAACATATGCAACAGGGAATCTGCGCGAGTGTCTTTTCTAATCTTCTCTTAGCA	540
OY	541	CTGTATCGTGTCTCATCTACACAGCCTCAGCAATTAAGTCAAGAACGCTCTGGGATC	600
Db	541	CTGCTGTCTGCTGACCAACCCAGCTTCCGCTTACGAAGTGCACCAAGTGTCCGGGATA	600
OY	601	TACATCTTACCAATGACATGCTCGGAACAAAGCATGCTTTTGAAGGGAGACCATGATA	660
Db	601	TATCATATGTCACGAACACATGCTTCCAAAGCAAGCATTTGATATGAGGCGAGACTTGATC	660
OY	661	CTGCATCTTCCAGAGTGTGTGCCATGATTAAGAGCGGGAAATGAGTCAAGATGTTGGCTC	720
Db	661	ATGCATATCTCTGGGTGCGTCCCTGTGCGTTGGGAAAGGCACATCTCTCCGCTGTGGGTA	720
OY	721	CTGTCTCCCAACCTTAAAGCCTTCCCAACTATCATGATGCAATCAACGAGTTTTCGCGCA	780
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Db	841	TGGGATCTGTTTCTCGTCTTCAGCTGTATCACTTCTCGCTCCCGGACATGTGACA	900
OY	901	ACCCAGATTTGTAACGTCTATTAACACATGAGCAACGCAACGGGACAAGATATGAC	956
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Search completed: January 11, 2006, 10:56:21
Job time : 234.737 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 231.737 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-43

Perfect score: 957

Sequence: 1 atgagcacactccaacac.....tcactgacacgacatgca 957

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: Issued Patents NA.*
2: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
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9: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	946.8	98.9	957	3	US-08-836-075A-43
2	685.2	71.6	957	3	US-08-836-075A-47
3	642.4	67.1	957	3	US-08-836-075A-41
4	565.4	59.1	1167	2	US-08-324-977-9
5	565.4	59.1	1167	2	US-08-384-616-9
6	565.4	59.1	1167	2	US-08-904-686A-9
7	565.4	59.1	1167	2	US-09-315-850-9
8	565.4	59.1	1499	2	US-08-324-977-3
9	565.4	59.1	1499	2	US-08-384-616-3
10	565.4	59.1	1499	2	US-08-904-686A-3
11	565.4	59.1	1499	2	US-09-315-850-3
12	565.4	59.1	6039	2	US-08-324-977-11
13	565.4	59.1	6039	2	US-08-384-616-11
14	565.4	59.1	6039	2	US-08-904-686A-11
15	565.4	59.1	6039	2	US-09-315-850-11
16	565.4	59.1	9030	2	US-08-324-977-13
17	565.4	59.1	9030	2	US-08-384-616-13
18	565.4	59.1	9030	2	US-08-904-686A-13
19	565.4	59.1	9030	2	US-09-315-850-13
20	565.4	59.1	9416	2	US-08-324-977-1
21	565.4	59.1	9416	2	US-08-384-616-1
22	565.4	59.1	9416	2	US-08-904-686A-1
23	565.4	59.1	9416	3	US-09-315-850-1
24	565.4	59.1	9416	3	US-08-823-895A-27

25	563.8	58.9	2433	3	US-08-612-973-49	Sequence 49, Appl
26	563.8	58.9	2433	3	US-08-927-597-49	Sequence 49, Appl
27	563.8	58.9	2433	3	US-08-928-757-49	Sequence 49, Appl
28	555.4	58.0	1037	2	US-08-462-195-1	Sequence 1, Appl
29	555.4	58.0	1037	2	US-08-636-883-1	Sequence 1, Appl
30	555.4	58.0	1037	2	US-09-127-829-1	Sequence 1, Appl
31	554.2	57.9	1539	2	US-08-470-426B-17	Sequence 17, Appl
32	554.2	57.9	1863	2	US-08-470-426B-14	Sequence 14, Appl
33	554.2	57.9	9412	3	US-08-150-204E-96	Sequence 96, Appl
34	553.8	57.9	2116	3	US-08-191-160-A-21	Sequence 21, Appl
35	549.4	57.4	1037	2	US-08-462-195-3	Sequence 3, Appl
36	549.4	57.4	1037	2	US-08-636-883-3	Sequence 3, Appl
37	549.4	57.4	1037	3	US-09-127-829-3	Sequence 3, Appl
38	549.4	57.4	9595	3	US-09-014-416-4	Sequence 4, Appl
39	549.4	57.4	9599	3	US-09-014-416-6	Sequence 6, Appl
40	547.8	57.2	11076	3	US-09-539-601-1	Sequence 1, Appl
41	547.8	57.2	11076	3	US-09-539-601-19	Sequence 19, Appl
42	547.8	57.2	11076	3	US-09-539-601-25	Sequence 25, Appl
43	547.8	57.2	11076	3	US-09-539-601-31	Sequence 31, Appl
44	541.4	56.6	9275	3	US-10-259-275-39	Sequence 39, Appl
45	540.4	56.5	957	3	US-08-836-075A-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-43
Sequence 43, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA: EP 94870166.9
APPLICATION NUMBER: 21 Oct 1994
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA: EP 95870076.7
APPLICATION NUMBER: 28 Jun 1995
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-43

Query Match 98.9%; Score 946.8; DB 3; Length 957;

Best Local Similarity 100.0%; Pred. No. 1,1e-272;

Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 ATGAGCACATCTCCAAAACCCCAAGAAACCAAAAGAAACACACCATCCGCGCCACAG 60
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Db 61 GACGTCAGATTCGCGGCTGGCGGCGCAATCGTTGGTAGTCTACTTCGCGCGCAGG 120
Oy 121 GCGCGCGCTTGGGTGGTGGCGCGCGAGAGAAAGACTTCTGAACGGTCCAGCCAGAGT 180
Db 121 GCGCGCGCTTGGGTGGTGGCGCGCGAGAGAAAGACTTCTGAACGGTCCAGCCAGAGT 180
Oy 181 AGGCGCCAAACCAATACCAAGTGGCGCAACCAACGCGCCGTAACCTGGGCGCCAGCGG 240
Db 181 AGGCGCCAAACCAATACCAAGTGGCGCAACCAACGCGCCGTAACCTGGGCGCCAGCGG 240
Oy 241 TACCCCTGGCTCTTTATGAAATAGAGGCTGTGTGGTGGCAAGCTGCTCTGCTCCCG 300
Db 241 TACCCCTGGCTCTTTATGAAATAGAGGCTGTGTGGTGGCAAGCTGCTCTGCTCCCG 300
Oy 301 CGCGGCTTCGCGCCAAATTTGGGCGCCAAACGACCCCGCGGAGGTCCCGCAACTGGGT 360
Db 301 CGCGGCTTCGCGCCAAATTTGGGCGCCAAACGACCCCGCGGAGGTCCCGCAACTGGGT 360
Oy 361 AAAGTCATCGACACCTTACTTTCGCGCTTCGCGCACTCATAGGGGTATATCCCTGCTGA 420
Db 361 AAAGTCATCGACACCTTACTTTCGCGCTTCGCGCACTCATAGGGGTATATCCCTGCTGA 420
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Db 421 GCGGCTCCGWTGGAGGCGGTGCGGNGGCTTTGCGCATGGGGTTCANGNCATCGAGGAC 480
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Db 481 GGGNGTAATTAAGCAACAGNAAATCTTCCGNNCTCTNTCTCATCTTCTCTTGGCA 540
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Db 541 CTTCCTCGTGCCTTACAAACAGCAGCTCCGCGGCGCATTTAACAAAGCTGGCTG 600
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Db 601 TACCATCTACCAACGAGCTGCCCAACAGAGCATGTTTATGAGCGGAGACACTGAT 660
Oy 661 TTGCACTTGGCTGGGTGTACCTTGTGTGAAGTGAACATCATCCCGGTGCGGCTG 720
Db 661 TTGCACTTGGCTGGGTGTACCTTGTGTGAAGTGAACATCATCCCGGTGCGGCTG 720
Oy 721 CAGGCTCCCGGACCTCTGAGTGGCGAAGCGGTCTAGCCAGTACCGGGTCCGCAAA 780
Db 721 CAGGCTCCCGGACCTCTGAGTGGCGAAGCGGTCTAGCCAGTACCGGGTCCGCAAA 780
Oy 781 CATGTGACATCATGAGTGGCGCTGCGGCTTCTGTCACTATGATGAGGAGACTG 840
Db 781 CATGTGACATCATGAGTGGCGCTGCGGCTTCTGTCACTATGATGAGGAGACTG 840
Oy 841 TGGCGGCGCTTTTCTGTTGGAGAGCTTTCAAGCTCAAGGCTCCGATAGATAGGTT 900
Db 841 TGGCGGCGCTTTTCTGTTGGAGAGCTTTCAAGCTCAAGGCTCCGATAGATAGGTT 900
Oy 901 GTCCAGAGTGAATCTTTCATCTACACAGGGCATATCATCGAGACCGAATGSCA 957
Db 901 GTCCAGAGTGAATCTTTCATCTACACAGGGCATATCATCGAGACCGAATGSCA 957

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RESULT 2

US-08-836-075A-47
Sequence 47, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 47:

SEQUENCE CHARACTERISTICS:

LENGTH: 957 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-836-075A-47

Query Match 71.6%; Score 685.2; DB 3; Length 957;

Best Local Similarity 81.6%; Pred. No. 1,7e-194;

Matches 780; Conservative 3; Mismatches 173; Indels 0; Gaps 0;

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Oy 1 ATGAGCACATCTCCAAAACCCCAAGAAACCAAAAGAAACACACCATCCGCGCCACAG 60
Db 1 ATGAGCACATCTCCAAAACCCCAAGAAACCAAAAGAAACACACCATCCGCGCCACAG 60
Oy 61 GACGTCAGATTCGCGGCTGGCGGCGCAATCGTTGGTAGTCTACTTCGCGCGCAGG 120
Db 61 GACGTCAGATTCGCGGCTGGCGGCGCAATCGTTGGTAGTCTACTTCGCGCGCAGG 120
Oy 121 GCGCGCGCTTGGGTGGTGGCGCGCGAGAGAAAGACTTCTGAACGGTCCAGCCAGAGT 180
Db 121 GCGCGCGCTTGGGTGGTGGCGCGCGAGAGAAAGACTTCTGAACGGTCCAGCCAGAGT 180
Oy 181 AGGCGCCAAACCAATACCAAGTGGCGCAACCAACGCGCCGTAACCTGGGCGCCAGCGG 240
Db 181 AGGCGCCAAACCAATACCAAGTGGCGCAACCAACGCGCCGTAACCTGGGCGCCAGCGG 240
Oy 241 TACCCCTGGCTCTTTATGAAATAGAGGCTGTGTGGTGGCAAGCTGCTCTGCTCCCG 300
Db 241 TACCCCTGGCTCTTTATGAAATAGAGGCTGTGTGGTGGCAAGCTGCTCTGCTCCCG 300

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Oy 301 GCGGCTCTGGCCCAAAATTGGGGGCGCCAAAGACCCCGCGAGAGGCTCCGCAACTTGGGT 360
Db 301 GCGGCTCTGGCCCGGAGCTGGGAGCCCAATGACCCCGGAGAGGCTCCGCAACTGGGT 360
Oy 361 AAGTCATGCAACACCTTACTTGGGCTTGGCCGACTTACGAGGATATATCCCTGTGTA 420
Db 361 AAGTCATGCAACACCTTACTTGGGCTTGGCCGACTTACGAGGATATATCCCTGTGTA 420
Oy 421 GGGCTCTCGMTGGGAGGCGTGGGAGGCTTGGCGATGGGGTCAAGNCAATCGAGAGC 480
Db 421 GGGCTCTCGMTGGGAGGCGTGGGAGGCTTGGCGATGGGGTCAAGNCAATCGAGAGC 480
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Db 481 GGNATAATTAACGAACAGNGAATCTTCCCGGANNCGCTCTTCTATCTTCTTCCTGGGA 540
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Db 541 CTCTCTCTGTCCTTACACACAGAGCTCCGCGGCGCATTAATACAAAGTCTGGCTG 600
Oy 601 TACCATCTCACCAACGACTGCCCCAACAGACAGCATGTTATGAGGCGGAGACACTGATT 660
Db 601 TACCATCTCACCAACGACTGCCCCAACAGACAGCATGTTATGAGGCGGAGACACTGATT 660
Oy 661 TTGCACTTGGCTGGGTGTGTAACCTTGTGTGAATGTGAATCAATCAATCCCGGTGGGTG 720
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Oy 721 CAGGCTCTCCCGGAGCCCTGGGAGTGCAGACGCGCTTACGCGAGTCACCGGGTTCCGANA 780
Db 721 CAGGCTCTCCCGGAGCCCTGGGAGTGCAGACGCGCTTACGCGAGTCACCGGGTTCCGANA 780
Oy 781 CATGTGACATCATGTGTGGGCGCTGCGCGTCTGTTCAGCTAATGTATGTGGGGAACTTG 840
Db 781 CATGTGACATCATGTGTGGGCGCTGCGCGTCTGTTCAGCTAATGTATGTGGGGAACTTG 840
Oy 841 TGCGGGGGGCTTTTCTCTGTTGAGACAGCTTTACGCTGACGAGCTCTGGATCATAGGTT 900
Db 841 TGCGGGGGGCTTTTCTCTGTTGAGACAGCTTTACGCTGACGAGCTCTGGATCATAGGTT 900
Oy 901 GTCCAGAGATGTACTGTTCATCTTACACAGGGCATATACAGCGAATGGC 956
Db 901 GTCCAGAGATGTACTGTTCATCTTACACAGGGCATATACAGCGAATGGC 956

RESULT 3
US-08-836-075A-41
Sequence 41. Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155

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1	FILED DATE: 23 Oct 1995	67.1%;	Score 642.4;	DB 3;	Length 957;	
2	PRIOR APPLICATION DATA:	78.8%;	Pred. No. 1.1e-181;			
3	APPLICATION NUMBER: EP 94870166.9	2;	Mismatches 201;	Indels 0;	Gaps 0;	
4	FILED DATE: 21 Oct 1994					
5	PRIOR APPLICATION DATA:					
6	APPLICATION NUMBER: EP 95870076.7					
7	FILED DATE: 28 Jun 1995					
8	ATTORNEY/AGENT INFORMATION:					
9	NAME: KAMMERER, PATRICIA A.					
10	REGISTRATION NUMBER: 29,775					
11	REFERENCE/DOCKET NUMBER: INNS:004					
12	INFORMATION FOR SEQ ID NO: 41:					
13	SEQUENCE CHARACTERISTICS:					
14	LENGTH: 957 base pairs					
15	TYPE: nucleic acid					
16	STRANDEDNESS: single					
17	TOPOLOGY: linear					
18	MOLECULE TYPE: cDNA					
19	HYPOTHEICAL: NO					
20	ANTI-SENSE: NO					
21	US-08-836-075A-41					
22	Query Match					
23	Best Local Similarity					
24	Matches 754; Conservative					
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 Db 721 CTTCTCTCCCGACCTTATGCGTCCCACTCATATGTCGAATTCACGGGCTTCGGCGA 780
 Qy 781 CATGTGACATCATGTGTGGGCGCTGCCGCTTCTGTTCAGTATGTATGTGGGAGACCTG 840
 Db 781 CACGTAGACCTCTCTGTGTGGGCGAGCGGCACTTTGTTCGCGCATGTATCATCGAGACCTC 840
 Qy 841 TGGCGGGCGCTTTTCTCTGTGTGGACAGCTTTTACGCTCAGGAGCTCGAGTCAATCAGTT 900
 Db 841 TGTGTAGCATATATCTTGTGTGGGCGAGCTTTTACTTTTCAAGGCTCAATCAGTCAAGTT 900
 Qy 901 GTCCAGAGGTATCTGTTCATCTACACAGGAGCATATCAGTGGACACCGAATGGCA 957
 Db 901 ACCGAGATGTATCTGTCTATTAACNCCTGAGCCAGTCAAGGAGACAGAGATGGCA 957

RESULT 4
 US-08-324-977-9
 ; Sequence 9, Application US/08324977
 ; Patent No. 5747339
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
 ; ADDRESS: Naughton
 ; STREET: 1725 K St., N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/324,977
 ; FILING DATE: 18-OCT-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/099,706
 ; FILING DATE: 30-JUL-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Stevens-Smith, Theresa M.
 ; REGISTRATION NUMBER: 36,281
 ; REFERENCE/DOCKET NUMBER: 900703D
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; TELEX: 440142

; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 1..1167
 ; OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 ; OTHER INFORMATION: SEQ ID NO: 1"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-08-324-977-9

Query Match 59.1%; Score 565.4; DB 2; Length 1167;
 Best Local Similarity 74.0%; Pred. No. 1.2e-158;
 Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

Qy 1 ATGAGCACCTTCCAAACCCCAAGAAAACCAAAAGAACCCATCCGCGCCGACAG 60
 Db 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAAGTAACACCAACCGCCGACAG 60
 Qy 61 GAGGTCAAGTTCCCGGGTGGCGGCAAGATCGTTGGTGAAGTCTTACTGTGCGGAGG 120
 Db 61 GAGGTCAAGTTCCCGGGCGGTGTGATGCTTGTGGAATTTACCTGTGTGCGGAGG 120
 Qy 121 GGGCCGGCTGTGGGTGTGCGCGCAGAGAAAGACTTTGTAACGGTCCAGCCAGAGT 180
 Db 121 GGGCCAGGTTGGGTGTGCGCGCCAGAGAAAGCTTCCAGCGGTGCAACCTGTGTA 180
 Qy 181 AGGCGCCAACTATCCCAAGTGGCCACCAACGGGCCGTACTGTGGGCCAGCCGGG 240
 Db 181 AGGCGCAACCTATCCCAAGGCTGCGGCGCCAGAGGAGACTGTGGGCTCAAGCCGGG 240
 Qy 241 TACCCCTGAGCCTCTTTATGGAATGAGGGCTGTGTGGGCAAGGCTCTGTCCCC 300
 Db 241 TACCTTGGCCTCTCTATGGAATGAGGGCTGTAGGGTGGGCAAGATGGCTCTGTCA 300
 Qy 301 CGCGGCTCTGCGCCAAATTTGGGGCCAAAGAGACCCCGCGAGAGTCCGCAACTGGGT 360
 Db 301 CGCGGCTCCGGCCTTAGTTGGGGCCCAAGAGACCCCGCGAGTGGCTGTATTTGGGT 360
 Qy 361 AAAGTCAATGCAACCTTACTTGGGCTTGGCCGCACTCATAGGGTATATCCCTGTGTA 420
 Db 361 AAAGTCAATGCAATCCCTCAATGCGGCTTGGCGATCTCATAGGGTATATCCCTGTG 420
 Qy 421 GGGCTCCGWTGGAGGCGTGGCGGAGGCTTGGCGGATGGGTCANAGNCATGAGGAC 480
 Db 421 GGGCCCGCCCTGGGGGGCGCTGGCAAGGCGCTGGCAATGGTGTCCGGGTTCTGAGAGAC 480
 Qy 481 GAGTAAATTAAGCAACAGAAATCTTCCGAGGCTCTTCTATCTTCTTGGCA 540
 Db 481 GGGCTAAATTAAGCAACAGAAATCTTCCGAGGCTCTTCTATCTTCTTGGCT 540
 Qy 541 CTTCTCTGTCCTTAACAACAGCCTCGCGGCGCATTAACAAGTCTGGGCTG 600
 Db 541 CTTCTCTGTCCTTAACAACAGCCTCGCGGCGCATTAACAAGTCTGGGCTG 600
 Qy 601 TACCATCTACCAAGAGCTGGCCCAAGCAGCATCTGTTATAGAGCGGAGACATGATT 660
 Db 601 TATCATGTACGAAGAGCTGTCTCAAGCAAGCATTTGTATAGGAGCGAGCATTTATC 660
 Qy 661 TTGCACTTGGCTGGGTGTATCTTGTGAAGTGAACAATCAATCCGGTGTGGGTG 720
 Db 661 ATGCAATCTCTGGGTGTGTCCTGTGTTGGGAAGCAACTCTCCGCTGTGGGTA 720
 Qy 721 CAGGCTTCCCGGACCTTGGCGAGTGGCGAGCGGTCTAGCGCAAGTCAAGGGTTCCGAAA 780
 Db 721 GCGCTCACTCCAGCTTCGAGCGAGGAGAACTCAACATCCCAACAGAGATGAGAGC 780

Qy 781 CATGTGACATCATGTGGGCGCTGCCGCTTCTGTCAGTANGTANGTGGGGAGCCTG 840
Db 781 CACGTGATCTGCTCGTTGGGGCGGCTGTTCTGTCGCTATGATGGGGAGCCTC 840.
Qy 841 TGGGGGGGCTTTTCTGTTGGAGAGCTTTACGCTCAGGCTCGGATGATGAGTT 900
Db 841 TGGGATCTGTTTCTGCTGCTCAGCTGTTCACCTTCTGCTGCGCGGATGTGACA 900
Qy 901 GTCCAGAGTGTATCTGTTCCATCTACACAGGAGATATCATGACACCGAATGCG 956
Db 901 TTACAGGACTGATCTGCTCAATTATATCCGCGCATGTGTGCGGTACCGATGAGC 956

RESULT 5
US-08-384-616-9
Sequence 9, Application US/08384616
Patent No. 5847101
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
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ADDRESS: Naughton
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CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1167 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:

NAME/KEY: misc feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-384-616-9

Query Match 59.1%; Score 565.4; DB 2; Length 1167;
Best Local Similarity 74.0%; Pred. No. 1.2e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCCAAAACCCCAAGAAAAACAAAGAAACACCATCCGCGCCACAG 60
Db 1 ATGAGCACGATCTTAACCTCAAGAAAAACAAAGTAACCAACCGCGCCACAG 60
Qy 61 GACGTCAAGTTCCCGGGTGGCGGCAAGATCGTTGAGTCTAATTGCTGCGCGCAGG 120
Db 61 GACGTCAAGTTCCCGGGGCGGTGTCAGATCGTTGAGTCTAATTGCTGCGCGCAGG 120
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Db 181 AGGCGCAACCTATCCCAAGGCTGCGCGCGCGCGAGGCGAGACTGGGCTCAGCGCGG 240
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Db 241 TACCCTGCGCTCTTTATGGAATGAGAGGCTGTGGGTGGAGGCTGCTGCTGCTCACC 300
Qy 301 CGCGGCTCTGCGCCAAATTTGGGGCCCAAGACCCCGCGGAGAGTCCCGCACTTGGGT 360
Db 301 CGCGGCTCTGCGCCAAATTTGGGGCCCAAGACCCCGCGGAGAGTCCCGCAATTTGGGT 360
Qy 361 AAAGTCATGACACCTTACTGTCGGGCTTGGCGGACCTCAATGGGGTATTCCTGTGCTA 420
Db 361 AAAGTCATGACACCTTACTGTCGGGCTTGGCGGACCTCAATGGGGTATTCCTGTGCTA 420
Qy 421 GGGCGCTCGMTGGAGGCGTGGCGGAGGCTTGGCGGAGGCTGAGGAGTCAAGGAGTCA 480
Db 421 GGGCGCTCGMTGGAGGCGTGGCGGAGGCTTGGCGGAGGCTGAGGAGTCAAGGAGTCA 480
Qy 481 GAGTAAATTAAGCAAGAGAAATCTTCCGAGGCTTCTATCTTCTTCTTCTTCTTCT 540
Db 481 GAGTAAATTAAGCAAGAGAAATCTTCCGAGGCTTCTATCTTCTTCTTCTTCTTCT 540
Qy 541 CTCTCTGTCGCTTAAACACAGCGCTCGCGGCGGATTAACCAACAGTCTGGGCTG 600
Db 541 CTCTCTGTCGCTTAAACACAGCGCTCGCGGCGGATTAACCAACAGTCTGGGCTG 600
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Db 661 TTGCACTTGGCTGGGTGTGTAACCTTGTGAAGTGAACAATCAATCCGCTGTGGGTG 720
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Db 721 CAGGCTCCCGGACCGCGGAGTGGAGAGCGGTCTAGCGCAAGTCAACGAGTCTCGGAAA 780
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Db 781 CACGTGATCTGCTCGTTGGGGCGGCTGTTCTGTCGCTATGATGGGGAGCCTC 840
Qy 841 TGGGGGGGCTTTTCTGTTGGAGAGCTTTACGCTCAGGCTCGGATGATGAGTT 900
Db 841 TGGGATCTGTTTCTGCTGCTCAGCTGTTCACCTTCTGCTGCGCGGATGTGACA 900

Qy 901 GTCCAGAGTGTAACTGTTCCATCTACACAGGCGATATCATCGACACCGAATGAC 956
 Db 901 TTACAGACTGTAACTGCTCAATTATATCCGCGCATGTGTGGGTACACCGATATGAC 956

RESULT 6

US-08-904-686A-9
 Sequence 9, Application US/08904686A
 Patent No. 5998130
 GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hirotō
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
 ADDRESS: Naughton
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/904,686A
 FILING DATE: 01-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/324,977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/099,706
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Mclelland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 900703G
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1167 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..1167
 OTHER INFORMATION: /note: "sequence = 333 - 1499 of

OTHER INFORMATION: SEQ ID NO: 1"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-08-904-686A-9

Query Match 59.1%; Score 565.4; DB 2; Length 1167;
 Best Local Similarity 74.0%; Pred. No. 1,2e-158;
 Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAGAAAACCATCCGCCCCACAG 60
 Db 1 ATGAGCACGAACTCTAAACCTCAAGAAAACCAAAAGTAAACCAACCCCGCCACAG 60
 Qy 61 GAGCTCAAGTTCCTCCGGGTGGCGGCAGATGTTGTGTGAGTCTACTGCTGGCGCGAGG 120
 Db 61 GAGCTCAAGTTCCTCCGGGTGGCGGCAGATGTTGTGTGAGTCTACTGTTGCGCGGAGG 120
 Qy 121 GGCCCGGCTTGGGTGGCGGCAGAGAAAAGACTTCTGAACGGTCCAGCCAGAGT 180
 Db 121 GGCCCGGCTTGGGTGGCGGCAGAGAAAAGACTTCCAGCGGTGCAACCTCGTGA 180
 Qy 181 AGCGGCAACCAATACCCAAAGTGGCCACCAACGGGCGGTACTGGGCGCCAGCCGGG 240
 Db 181 AGCGGCAACCAATACCCAAAGTGGCCACCGGCGGCGGAGGAGCACTGGGCGTCA 240
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 Db 301 CGCGGCTCTGCGGCTTATGGAGAGGGCTTGAAGTGGGAGGATGGCTCTGTCAACC 360
 Qy 361 AAGTCAATCGAACCTTACTTGGCGGCTTGGCGGACTCATGGGGTCAATTCGCTGTC 420
 Db 361 AAGTCAATCGAACCTTCAATGCGGCTTGGCGGACTCATGGGGTCAATTCGCTGTC 420
 Qy 421 GGCGCTCGMTGGGGGCGTGGCGGAGGCTTGGCGGAGTGGGAGCATGAGGAG 480
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 Qy 541 CTCTCTGTCGCTTAAACAACGCTCCGGGCGCATTAATCAACAAAGTCTGCGCTG 600
 Db 541 CTCTCTGTCGCTTAAACAACGCTCCGGGCGCATTAATCAACAAAGTCTGCGGATA 600
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 Qy 661 TTGCACTTGGCTGGGTGTGTAACCTTGTGTGAAGTGTGATCAATCCGGTCTGGGTG 720
 Db 661 ATGCACTACTCTGGGTGTGTAACCTTGTGTGAAGTGTGATCAATCCGGTCTGGGTG 720
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 Db 721 CAGGCTCTCCCGACCTGGGAGTGGCCGAACGCGTCTACGCCAGTCAACGGGTTCCGAAA 780
 Qy 781 CATGTGACATCATGAGTGGGCGTGGCGGCTTGTTCAGTATGATGAGGAGGAGCTG 840
 Db 781 CAGTGTGATCTGCTGTTGGGCGGCTGCTTGTTCAGTATGATGAGGAGGAGCTG 840
 Qy 841 TGGCGGCGCTTTTCTCTGTGTGACAGCTCTTCAACGCTCAGGCTCGAGATCAGATT 900
 Db 841 TGGCGATCTGTTTCTCTGTGTGACAGCTCTTCAACGCTTCTGCTGCGCGGAGTGA 900
 Qy 901 GTCCAGAGTGTAACTGTTCCATCTACACAGGCGATATCATCGACACCGAATGAC 956
 Db 901 TTACAGACTGTAACTGCTCAATTATATCCGCGCATGTGTGGGTACACCGATATGAC 956

RESULT 7

US-09-315-850-9
Sequence 9, Application US/0915850
Patent No. 6217872
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAMA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315, 850
FILING DATE:
APPLICATION NUMBER: US/08/904, 686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324, 977
FILING DATE: 18-OCT-1994
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
APPLICATION NUMBER: US 08/099, 706
FILING DATE: 30-JUL-1993
APPLICATION NUMBER: US 07/769, 996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: US 07/635, 451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0357
TELEFAX: (202) 659-2930
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1167 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
OTHER INFORMATION: SEQ ID NO: 1"

FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-09-315-850-9

Query Match 59.1%; Score 565.4; DB 3; Length 1167;
Best Local Similarity 74.0%; Pred. No. 1.2e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

QY	1	ATGAGCACTTCCAAACC	CAAGAAACCAAAAGAAACCAATCCGCGCCACAG	60
DB	1	ATGAGCAAGATCTTAACCT	CAAGAAACCAAAAGAAACCAATCCGCGCCACAG	60
QY	61	GACGTCAAGTTCCCGGGTGGCGG	CCAGATGTTGGTGAAGTCTACTTGTCCGCGAGG	120
DB	61	GACGTCAAGTTCCCGGGCGGTGGT	GCATGCTTGGTGAAGTTTACCTGTTGCGCGAGG	120
QY	121	GGCCCGGCTTGGTGGTGGCGG	CGACAGAAAGACTTGAACGGTCCAGCCAGAGT	180
DB	121	GGCCCGAGTTGGGTGGTGGCGG	CCAGAAAGACTTCCAGCGGTCCAACTCGTGA	180
QY	181	AGGCGCCAACTATCCCAAGTGG	CCACCAAGCGGCGGTACTGGGCCACCGCGG	240
DB	181	AGGCGCAACTATCCCAAGGCTGG	CCGAGGCGAGACCTGAGCTCAAGCCCGG	240
QY	241	TACCCCTGGGCTCTTATGGAAT	GAGGCTGTGGTGGGAGGCTGCTCTGCCCC	300
DB	241	TACCTTGGCTCTCTATGGAAT	GAGGCTGTGGGAGGCTTGAAGGTGGGATGGCTCTCTCA	300
QY	301	CGCGGCTCTGCGCCAAATGGG	GGCCAAACGACCCCGGCGAGGTCGCGCACTTGGT	360
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QY	601	TACCATGACCAACGACCTGG	CCCAAGACGATGTTATGAGGCGAGACATGAT	660
DB	601	TATCATGACGAACGACGTG	CTCCAAAGCAATGTGTATGAGGACGCGAATTGAT	660
QY	661	TTGCACTTGCCTGGGTGTG	ACTTGTGTGAAGTGAACAATCCGGTGTGGGTG	720
DB	661	ATGATATCTCTGGTGTGG	CTGCTGGTTCGGGAAGCACTCTCCGGTGTGGGTA	720
QY	721	CAGGCTCCCGACCTGGGAG	TGCGCAAGCGCTTACGCCAGTCAACGGGTTCGCA	780
DB	721	GGGCTCACTCCACGCTGG	AGCCAGGACGTCACATCCCAACAGACATGACGCG	780
QY	781	CATGTGACATCATGATGGG	GGGCTGGCGCTGTTCAAGTATGATGAGGAGAC	840
DB	781	CAGTCAATCTGCTGTGGG	GGGCGGCTTCTTCTTCTGCTATGATGATGAGGAG	840
QY	841	TGCGGAGGCTTTTCTGTT	GAAGCTCTTCAAGCTCTTCAAGGCTCGAATG	900
DB	841	TGGGATCTGTTTCTGCTG	CTCAAGCTGTTCAGCTGTTCAGCTTCGCGCGG	900
QY	901	GTCGAGAGTGTAACTGTT	CATCTACACAGGAGATATCACTGACACCGAAT	956
DB	901	TTACAGACTGTAACTGCT	CAATTTATCCGCGCATGTGTGCGGATACCGTAT	956

RESULT 8
US-08-324-977-3
; Sequence 3, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
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; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
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; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
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; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
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; PRIOR APPLICATION DATA:
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; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REFERENCE/DOCKET NUMBER: 36,281
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
; US-08-324-977-3"

Query Match 59.1%; Score 565.4; DB 2; Length 1499;
Best Local Similarity 74.0%; Pred. No. 1,4e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;
QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAGAAACACATCCGCCGCCACAG 60
DB 333 ATGAGCACAGATCTTAACCTCAAGAAAAACCAAGGTAAACCAACCGCCGCCACAG 392
QY 61 GAGGTCAAGTTCCCGGGGTGGCGGCGAGATGTTGGTGAAGTCTACTTGTCCGCGCAGG 120
DB 393 GAGGTCAAGTTCCCGGGCGGTGGTCAATGCTTGTGAAGTTTACTTGTCCGCGCAGG 452
QY 121 GGGCCGCGCTTGGGTGTGCGCGCGCAGAGAAGAATTCTGAACGGTCCAGCCAGAGT 180
DB 453 GGGCCGAGTTGGGTGTGCGCGCGCCAGAGAAGATTCCAGAGGGGTGCAACCTGTGGA 512
QY 181 AGGCGCCAAACCAATACCAAAAGTGGCCACCAACGGGCGGTACTTGGGCGCCAGCCGGG 240
DB 513 AGGCGAACACTATCCCAAGGCTGCGCGCCGAGGGGCAAGACCTTGGGCTCAAGCCGGG 572
QY 241 TACCCCTGGGCTCTTTATGGAATAGGGCTGTGGTGGGCAAGGCTGCTCCGCC 300
DB 573 TACCTTGGGCTCTTTATGGAATAGGGCTTTAGGGTGGGCAAGATGCTCTGTCAACC 632
QY 301 CGCGGCTCTCGCCCAATTTGGGGCCCAACGACCCCGCGGAGGTCCCGCACTTGGGT 360
DB 633 CGCGGCTCCGGGCTTAATGGGGGCCCAAGGACCCCGGGGTAGTGCCTTAATTTGGGT 692
QY 361 AAAGTCATCGAACCTTTACTTGGGGCTTGGCGCACTCATGGGGTATATCCCTGTGTA 420
DB 693 AAAGTCATCGATACCTTCACATGCGGCTTGCCTCATCTCATGGGGTCAATTCCTGTC 752
QY 421 GGGGCTCCGWTGGAGGGGTGGCGGAGGCTTGGCGCATGGGGGTCAAGNACATGAGGAC 480
DB 753 GGGGCTCCCTGGGGGGGCGCTGCGAGGCTTGGCAATGATGTGCGGGTTCTGAGAGAC 812
QY 481 GAGGTAAATTACGCAACAGNAAATCTTCCCGANNCTCTTCTATCTTCTTGGCA 540
DB 813 GAGGTAACTATGCAACAGGAAATCTGCGGGTCTCTTTCTATCTTCTTGGCT 872
QY 541 CTTCCTCTGTCCTTAACAACAGCTTCCGGGCGCATTTACCAACAGTCTGGCCTG 600
DB 873 CTGCTCTCTGCTGACCAACCCAGCTTCCGTTACGAAGTGCACAACTGTCCGGGATA 932
QY 601 TACCATCTCACCAAGACTGCGCCCAAGCAGCATGCTTTATGAGCGGAGACACTGATT 660
DB 933 TATCATGTACGAACGACTGCTTCAAGCAAGCATTTGTATGAGGACGCGACTGTATC 992
QY 661 TTGCACTTGCCTGGATGTGTAACCTTGTGTGAAGTGAACAATCAATCCGGTGTGGGTG 720
DB 993 ATGCACTACTCTGGGTGTGTCCTGCTGGGAAAGCACTCTCCGCTGTGGGTA 1052
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DB 1053 GCGCTCACTCCACAGCTCGCAGCGAGAACCTCAACATCCCAACACAGACATCGAGC 1112
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RESULT 9
US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101

GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSER: Armstrong, Westerman, Hattori, Mcleland &
ADDRESS: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
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TELEFAX: (202) 659-2930
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LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
US-08-384-616-3
Query Match 59.1%; Score 565.4; DB 2; Length 1499;
Best Local Similarity 74.0%; Pred. No. 1.4e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

QY 1 ATGACCACTTCCAAACCCCAAGAAAACCAAAAGAAACACCATCGCCGCCACAG 60
DB 333 ATGACCACTTCCAAACCCCAAGAAAACCAAAAGAAACCAACCAACCGCCGCCACAG 392

QY 61 GACGTCAAGTTCCTGGGTGGCGCCAGATCGTTGGTGAAGTCTACTTGTCCCGCGACG 120
DB 393 GACGTCAAGTTCCTGGGTGGCGCGGTGGTCAATGCTTGTGGAGTTTACTGTTCCCGCGACG 452
QY 121 GGGCCGGCTTGGGTGGTGGCGCGACGAGAAAGATTCTGTAGACGGTCCAGCCAGAGT 180
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QY 181 AGGGCCCAACCAATACCAAAAGTGGCGACCAAAAGGGCCGTACTGGGGCCAGCCGGG 240
DB 513 AGGGCAACCTATCCCAAGCTGGCGCGCCAGAGGACGAGACTTGGCTCAAGCCGGG 572
QY 241 TACCCCTGGCTCTTTATGAAATAGAGGCTGTGGTTGGGAGGCTGCTCTTCCCTCC 300
DB 573 TACCTTGGCTCTCTATGGAATGAGGGCTTGGGTGGAGGATGGCTCTGTCAACC 632
QY 301 CGCGGCTCTGCGCCAAATTTGGGGCCCAACGACCCCGCGGAGGTCCCGCACTTGGGT 360
DB 633 CGCGGCTCCCGGCTTGGTGGGGCCCAACGACCCCGCGGTAGTGGCTTAATTTGGGT 692
QY 361 AAGTCATCGACACCTTACTTGGGCTTGGCGGACCTCAATGGGGTATATCCGTGTGA 420
DB 693 AAGTCATCGATACCTTCACTGCGGCTTGGCGGATCTCAATGGGGTATATCCGTGTG 752
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DB 753 GCGCCTCCCGTGGGGGGCGTGGCGAGGCTTGGCGGATGAGGATGAGGATGAGGAC 812
QY 481 GAGTAAATTAAGCAACAGAAATCTTCCGAGGCTTGTCTATCTTCTTCTTCTTCTT 540
DB 813 GCGGTAACTATGCAACAGGAAATCTGCGGTGTCTTCTTCTATCTTCTTCTTCTTCT 872
QY 541 CTCTCTCGGCTTAAACACAGGCTTGGCGGCGGATTAACCAAGTCTGGCTG 600
DB 873 CTGCTGCTGCTGACACCCCAAGCTTCCGTTACGAAGTGAACAGTGTCCGAGATA 932
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DB 993 ATGATATCTCTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1052
QY 721 CAGGCTTCCCGACCTGGAGAGTGGAGAGCGCTTACGCGACGACCGGTTCCGCAA 780
DB 1053 GCGCTCACTCCACGCTCGACGAGCGAGAGCGTCAACATCCCAACAGACATTCAGCGC 1112
QY 781 CATGTGACATCATGTGGGGGCTGGCGGCTTCTTCTGAGTATGATGAGGGGACCTG 840
DB 1113 CAGCTCATGTGCTGCTGTTGGGGGCGGCTGCTTCTGTTCCGTTATGATGAGGGGACCTC 1172
QY 841 TGGGGGGGCTTTTCTGTTGACAGCTCTTACGCTCAAGGCTTGGATGACATCAGTT 900
DB 1173 TGGGATCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1232
QY 901 GTCCAGAGTGTACTGTTCTCATCTACACAGGAGTATCACTGACACCGAATGCG 956
DB 1233 TTACGAGACTGTACTGCTCAATTTATCCGGGCAATGTGTGGGTCAACCGTATGCG 1288

RESULT 10
US-08-904-686A-3
Sequence 3, Application US/08904686A
Patent No. 5998130
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE

NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mcleland &
ADDRESS: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mcleland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-08-904-686A-3
Query Match 59.1%; Score 565.4; DB 2; Length 1499;
Best Local Similarity 74.0%; Pred. No. 14e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

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513 AGCGCAACCACTATCCCAAGGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCG 572
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573 TACCTTGGCGCTCTTATGGAATGAGGCGTGGGTGGCGCGCGCGCGCGCGCG 632
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301 CGCGCTCTCG 360
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633 CGCGGCTCCCGCGCTTATGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 692
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1173 TCGCGATCTGCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1232
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901 GTCCAGAGTGTAACTGCTTCACTTACACAGGCGATATCACTGACACCGAAT 956
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RESULT 11
US-09-315-850-3
; Sequence 3, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESS: Armstrong, Westerman, Hattori, Mcleland &

ADDRESSEE: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315, 850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904, 686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324, 977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099, 706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769, 996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635, 451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-09-315-850-3

Query Match 59.1%; Score 565.4; DB 3; Length 1499;
Best Local Similarity 74.0%; Pred. No. 14e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAAGAAACACCATCCGCGCCCAACAG 60
DB 333 ATGAGCACAGATCCAAAACCTCAAGAAAACCAAAAGCAACACCAACCGCGCCCAACAG 392
QY 61 GACGTCAAGTTCCCGGGTGGCGCGCCAGATCGTTGGTGAAGTCTACTCTGCGCGGACAG 120
DB 393 GACGTCAAGTTCCCGGGTGGCGCGCGTGCAGATCGTTGGTGAAGTCTACTCTGCGCGGACAG 452

QY 121 GCGCCGCGCTTGAGTGTGCGCGGACGAGAAAGAATTGTGAACGGTCCACGCCAAGGT 180
DB 453 GCGCCGAGATTGGGTGTGCGCGCGCCAGGAAGACTTCCAGCGGTGCAGAACTCGTGA 512
QY 181 AGCGCCCAACCAATACCCAAAGTGGCCCAAAACGGGCGGTACTTGGGCGCCACCGGG 240
DB 513 AGCGCAACACTATCCCAAGGCTGCGCGGCCGAGGAGACCTTGGGCTCAACCGGG 572
QY 241 TACCCCTGGGCTCTTATGGAATGAGGGCTGTGGTGGGAGGCTGGCTCTGTCGCC 300
DB 573 TACCTTGGGCTCTCTATGGAATGAGGGCTTGAAGTGGGAGGATGGCTCTTCAACC 632
QY 301 GCGGCTCTGCGCCCAATTTGGGGCCCAACGACCCCGCGGAGATCCCGCACTGGGT 360
DB 633 GCGGCTCTGCGGCTTAGTGGGGCCCAACGACCCCGGGGTAGTGGCTTATTTGGGT 692
QY 361 AAAGTCAATGACACCTTTACTTGGGCTTGGCGGACTCATGGGGTATATCTCTGTGA 420
DB 693 AAAGTCAATGATACCTTCAATGCGGCTTGGCCGATCTCATGGGGTATATCTCTGTG 752
QY 421 GCGGCTCGMTGGGAGGCGTGGCGGAGGCTTGGCGGATGGGGTCAMGNCATGAGGAC 480
DB 753 GCGGCTCGGCTGGGGGCGCTGGCCAGGCTTGGCAATGGTGTCCGGCTTCTGAGGAC 812
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QY 541 CTCTCTGTGCTTAAACACAGCTCCGCGGCGATTAATACCAAGTCTGCGCTG 600
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QY 841 TGCGGGGCGCTTTTCTGTTGACAGCTCTTCAAGGCTCGGATGATCAGGTT 900
DB 1173 TGCGGATCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1232
QY 901 GTCCAGAGGTAACTGTTTCATCTTACAGAGGATATCACTGACACCGAATGCG 956
DB 1233 TTACAGAGCTGTAACTGCTCAATTTATCCGGCATGTGTGGGTACCGATGCG 1288

RESULT 12
US-08-324-977-11
Sequence 11, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
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ADDRESSEE: Naughton

STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-324-977-11

Query Match 59.1%; Score 565.4; DB 2; Length 6039;
Best Local Similarity 74.0%; Pred No. 2.8e-158;
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QY 1 ATGACGACACTTCCAAAACCCCAAGAAAGAAACCAACCAACCATCGCGCCGACAG 60
DB 1 ATGACGACGAATCTTAACCTCAAGAAAGAAACCAACCAACCAACCATCGCGCCGACAG 60
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QY 181 AGCGCCAAACCAATACCCAAAGTGGCGCACAAACGCGCCGTACTGTGGGCCGACGCCGAG 240

DB 181 AGCGCAACACTATCCCAAGGCTCGCGCCGAGGCGAGACCTGGGCTCAGCCCGAG 240
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DB 241 TACCTTGGGCTCTCTATGGAATGAGGGCTTGGGAGGAGATGAGCTCTGTCAACC 300
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DB 301 CGCGGCTCCCGGCTTATGTGGGGCCCAAGAGACCCCGGCGAGGTCCGCAATTTGGGT 360
QY 361 AAGGTATCGAACACCTTACTTGGGCTTGGCGGACTCATGGGATATCCCTGTGTA 420
DB 361 AAGGTATCGAATACCTTCAATGCGGCTTGGCGGATCATATGGGATCATTTCCGCTGTC 420
QY 421 GCGGCTCGGTTGGAGGCGGTGCGGAGGCGGCTTGGCGGATGAGGATGAGAGAC 480
DB 421 GCGGCTCCCTGGGGGCGCTGCGAGGCGCTTGGCAATGATGTCGGGTTTGGAGAC 480
QY 481 GAGTAAATTACGCAACAGAGAAATCTTCCGAGGCTCTTCTCTATCTTCTTGGCA 540
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QY 541 CTTCTTCTGCTTAAACAACAGCTCCGCGCGCATTAATACCAACAGTCTGCGCTG 600
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QY 601 TACCATCTCAACAGACGTCGCGCCACAGAGCATGCTTATGAGCGGAGACAGTATT 660
DB 601 TATCATGTCAGAACGACTGCTTCCAGAGCAAGATTTGATAGGACAGGACTTATATC 660
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DB 661 ATGCATATCTCTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
QY 721 CAGGCTTCCCGGACCTGCGAGTGCAGAGCGCTGACGCGAGTACCGGCTTCCGAAA 780
DB 721 GCGCTCACTCCGACGTCGCGAGCGAGGAGAGTCAACATCCCAACAGAGATACGAGC 780
QY 781 CATGTGACATCATGATGGGCGCTGCGCGCTTCTGTTCACTATGATGATGGGAGACTG 840
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RESULT 13
US-08-384-616-11
; Sequence 11, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mcleland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C. U.S.A.
; COUNTRY: U.S.A.
; ZIP: 20006

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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-384-616-11

Query Match 59.1%; Score 565.4; DB 2; Length 6039;
Best Local Similarity 74.0%; Pred. No. 2.8e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

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Qy 421 GGGCCTCCGWTGGAGGCGTGGCGGAGCCTTGGCGCATGGGCTCAGAGCATGAGAGAC 480
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Qy 481 GAGGTAAATTACGCAACAGGAATCTTCCGAGGCTCTTCTCTATCTTCTTCTTGGCA 540
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Qy 781 CATGTGACATCATGATGGGGGCTGCGCGCTTCTGTTGAGTATGATGAGGGGACCTG 840
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RESULT 14
US-08-904-686A-11
; Sequence 11, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chiato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mcleland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997

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1 APPLICATION NUMBER: US 08/324,977
2 FILING DATE: 18-OCT-1994
3 PRIOR APPLICATION DATA:
4 APPLICATION NUMBER: JP 2-167466
5 FILING DATE: 25-JUN-1990
6 PRIOR APPLICATION DATA:
7 APPLICATION NUMBER: JP 2-220921
8 FILING DATE: 31-AUG-1990
9 PRIOR APPLICATION DATA:
10 APPLICATION NUMBER: JP 2-305605
11 FILING DATE: 09-NOV-1990
12 PRIOR APPLICATION DATA:
13 APPLICATION NUMBER: US 08/099,706
14 FILING DATE: 30-JUL-1993
15 PRIOR APPLICATION DATA:
16 APPLICATION NUMBER: US 07/769,996
17 FILING DATE: 02-OCT-1991
18 PRIOR APPLICATION DATA:
19 APPLICATION NUMBER: US 07/635,451
20 FILING DATE: 28-DEC-1990
21 ATTORNEY/AGENT INFORMATION:
22 NAME: Mclelland, Le-Nhung
23 REGISTRATION NUMBER: 31,541
24 REFERENCE/DOCKET NUMBER: 900703G
25 TELECOMMUNICATION INFORMATION:
26 TELEPHONE: (202) 659-2930
27 TELEFAX: (202) 687-0357
28 INFORMATION FOR SEQ ID NO: 11:
29 SEQUENCE CHARACTERISTICS:
30 LENGTH: 6039 base pairs
31 TYPE: nucleic acid
32 STRANDEDNESS: single
33 TOPOLOGY: linear
34 MOLECULE TYPE: cDNA from genomic RNA
35 FEATURE:
36 NAME/KEY: misc_feature
37 LOCATION: 1..6039
38 OTHER INFORMATION: /note: "sequence = 333 - 6371 of
39 OTHER INFORMATION: SEQ ID NO: 1"
40 FEATURE:
41 NAME/KEY: CDS
42 LOCATION: 1..6039
43 US-09-315-850-11

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Query Match	59.1%	Score 565.4	DB 3	Length 6039
Best Local Similarity	74.0%	Pred. No. 2.8e-158		
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Gy 541 CTCTCTCGTGCCTTACAAACACAGCTTCGCGGCGCATTTACCAACAACTCTGCGCTG 600

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Db 901 TTACAGAGCTGTACGCTCAATTTATCCGGGCAATGTGCGGATCCGTAATGGC 956

Search completed: January 11, 2006, 10:56:23
Job time : 233.737 secs

Job time : 233.737 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 100.008 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-45

Perfect score: 413

Sequence: 1 atgagcacactcttaacc.....gacctcatagagatattcc 413

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	409.6	99.2	413	3	US-08-836-075A-45
2	355.2	86.0	957	3	US-08-836-075A-43
3	339.8	82.3	957	3	US-08-836-075A-47
4	329.6	79.8	549	3	US-08-441-971-54
5	329.6	79.8	549	3	US-08-221-653-54
6	329.6	79.8	549	3	US-08-442-144A-54
7	329.6	79.8	549	3	US-08-441-970-54
8	328	79.4	549	3	US-08-441-971-57
9	328	79.4	549	3	US-08-221-653-57
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13	326.4	79.0	540	2	US-08-470-426B-12
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18	326.4	79.0	573	2	US-08-290-665A-106
19	326.4	79.0	573	2	US-08-290-665A-154
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21	326.4	79.0	573	6	PCT-US95-10398-154
22	326.4	79.0	957	3	US-08-836-075A-41
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24	326.4	79.0	1863	2	US-08-470-426B-13

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26	324.8	78.6	549	3	US-08-221-653-56	Sequence 56, Appl
27	324.8	78.6	549	3	US-08-442-144A-56	Sequence 56, Appl
28	324.8	78.6	549	3	US-08-441-970-56	Sequence 26, Appl
29	324.8	78.6	9416	3	US-08-823-895A-26	Sequence 13, Appl
30	324.8	78.6	9416	3	US-10-104-966-13	Sequence 13, Appl
31	324.8	78.6	9416	3	US-09-929-955-13	Sequence 13, Appl
32	324.8	78.6	9599	3	US-09-014-416-2	Sequence 2, Appl
33	324.8	78.6	9646	3	US-08-811-566-1	Sequence 1, Appl
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35	324.8	78.6	10803	3	US-10-259-275-17	Sequence 17, Appl
36	324.8	78.6	12980	3	US-08-811-566-5	Sequence 5, Appl
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38	323.2	78.3	573	2	US-08-290-665A-104	Sequence 104, App
39	323.2	78.3	573	2	US-08-290-665A-107	Sequence 107, App
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41	323.2	78.3	573	6	PCT-US95-10398-104	Sequence 104, App
42	323.2	78.3	573	6	PCT-US95-10398-107	Sequence 107, App
43	323.2	78.3	573	6	PCT-US95-10398-108	Sequence 108, App
44	323.2	78.3	9365	3	US-09-827-688-7	Sequence 7, Appl
45	323.2	78.3	9401	2	US-08-432-693-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-45
Sequence 45, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESSES:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9487016.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9587007.6
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 413 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-45

Query Match 99.2%; Score 409.6; DB 3; Length 413;
Best Local Similarity 100.0%; Pred. No. 4.2e-112;
Matches 413; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAGCAACCAACCGTGGCCACAG 60
QY 61 GACGTCAAGTTCCCGGGTGGCGGTGAGTCAATCGTTGGAGTTACTTGTGCGGCGAGG 120
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Db 121 GGCCTCGTTGGGTGGTGGCGGCGGACGAGAAACTTTGTGAACGCTCCCAAGCCGAGG 180
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Db 181 AGAGCCCAACCTATACGAAAGGTGCTACCAACGAGGCGGTACTGGGCTCAACCGGAG 240
QY 241 TACCCCTGGCTCTTTATGGAATGAGGAGTTGTGGCTGGAGGCTCCTGTCCCC 300
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Db 241 TACCCCTGGCTCTTTATGGAATGAGGAGTTGTGGCTGGAGGCTCCTGTCCCC 300
QY 301 CNGGCTCTCGCCTTAATTGGGGCCCTTAATGACCCCGAGGAGGTCCCGCAACTGGGT 360
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Db 301 CNGGCTCTCGCCTTAATTGGGGCCCTTAATGACCCCGAGGAGGTCCCGCAACTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGTTGGCGGACCTCATAGATTAATTC 413
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RESULT 2

US-08-836-075A-43
Sequence 43, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO

US-08-836-075A-43

Query Match 86.0%; Score 355.2; DB 3; Length 957;
Best Local Similarity 90.8%; Pred. No. 8.3e-96;
Matches 375; Conservative 1; Mismatches 37; Indels 0; Gaps 0;

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Db 301 CNGGCTCTCGCCTTAATTGGGGCCCTTAATGACCCCGAGGAGGTCCCGCAACTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGTTGGCGGACCTCATAGATTAATTC 413
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Db 361 AAGGTCAATGATACCTTACTTGGGTTGGCGGACCTCATAGATTAATTC 413
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RESULT 3

US-08-836-075A-47
Sequence 47, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-47

Query Match 82.3%; Score 339.8; DB 3; Length 957;
Best Local Similarity 88.6%; Pred. No. 3.2e-91;
Matches 366; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAAGTTCCCGGGTGGCGGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 120
DB 61 GATGTCAAGTTCCCGGGTGGCGGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 120
QY 121 GGCCTCTGTTGGTGTGCGCGCGAGAGAACTTCTGAACGGTCCAGCCGAGGGT 180
DB 121 GGCCTCTGTTGGTGTGCGCGCGAGAGAACTTCTGAACGGTCCAGCCGAGGGT 180
QY 181 AGAGCCCACTATACCGAAGTGGTCAACCAACGGGCGTACTGGGCTCAACCGGG 240
DB 181 AGAGCCCACTATACCGAAGTGGTCAACCAACGGGCGTACTGGGCTCAACCGGG 240
QY 241 TACCCCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 300
DB 241 TACCCCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 300
QY 301 CACGCTCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 360
DB 301 CACGCTCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 360
QY 361 AAGGTATGATACCTTACTTGGGTTGGCGGACCTCATAGAGTACATTC 413
DB 361 AAGGTATGATACCTTACTTGGGTTGGCGGACCTCATAGAGTACATTC 413

RESULT 4

US-08-441-971-54
Sequence 54, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS: 147
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: aus1
US-08-441-971-54

Query Match 79.8%; Score 329.6; DB 3; Length 549;
Best Local Similarity 86.9%; Pred. No. 2.9e-88;
Matches 359; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAAGTTCCCGGGTGGCGGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 120
DB 61 GACGTCAAGTTCCCGGGTGGCGGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 120
QY 121 GGCCTCTGTTGGTGTGCGCGCGAGAGAACTTCTGAACGGTCCAGCCGAGGGT 180
DB 121 GGCCTCTGTTGGTGTGCGCGCGAGAGAACTTCTGAACGGTCCAGCCGAGGGT 180
QY 181 AGAGCCCACTATACCGAAGTGGTCAACCAACGGGCGTACTGGGCTCAACCGGG 240
DB 181 AGAGCCCACTATACCGAAGTGGTCAACCAACGGGCGTACTGGGCTCAACCGGG 240
QY 241 TACCCCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 300
DB 241 TACCCCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 300
QY 301 CACGCTCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 360
DB 301 CACGCTCTGCGCTCTTATAGGAATGAGGGTGTGGTGGGAGGGTGGTGGTGGTGG 360
QY 361 AAGGTATGATACCTTACTTGGGTTGGCGGACCTCATAGAGTACATTC 413
DB 361 AAGGTATGATACCTTACTTGGGTTGGCGGACCTCATAGAGTACATTC 413

RESULT 5

US-08-221-653-54
Sequence 54, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiak, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: aus1
INDIVIDUAL ISOLATE: aus1
US-08-221-653-54

Query Match 79.8%; Score 329.6; DB 3; Length 549;
Best Local Similarity 86.9%; Pred. No. 2.9e-88;
Matches 359; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCGAAGTCCCGGGGTGGCGGTGACGATCGTTGGTGAAGTTACTTGTGCGGCGAG 120
DB 61 GACGTTAAGTCCCGGGGTGGCGGTGACGATCGTTGGTGAAGTTACTTGTGCGGCGAG 120
QY 121 GGCCTCGTTGGGTGTGGCGCGACGAGAGAAACCTTGAACGGTCCGAGCGGAGT 180
DB 121 GGCCTTAAGTGGGTGTGGCGCGACGAGAGAAACCTTCCGACGGTCCGACCTGAGGT 180
QY 181 AGAGCCCAACTATACCGAAGGTGCGTCAACCAACGGGCGTACCTGGGCTCAACCCGGG 240
DB 181 AGAGCTCAGCCTATCCCTTAAGGCGGTGCGCCGAGGAGGACCTGGGCTCAGCCGGG 240
QY 241 TACCCCTGGCTCTTTATGGAATGAGGTTGTGCTGGGCGAGGTTGCTCTGTCCCGC 300
DB 241 TACCCCTGGCTCTTTATGGAATGAGGTTGTGCTGGGCGAGGTTGCTCTGTCCCGC 300
QY 301 CMCGCTCGGCTGCTTAATTGGGGCCCTATGACCCCGGAGGAGTCCGCAACCTGGGT 360
DB 301 CMTGCTCTGGGCTTAAGTGGGGCCCTTAAGACCCCGGCGTAGGTCGCGCAATTTGGGT 360
QY 361 AAGTCATCATACCTTACTTGGGTTTGGCGACCTCATAGAGTACATTCC 413
DB 361 AAGTCATCATACCTTACTTGGGTTTGGCGACCTCATAGAGTACATTCC 413

DB 361 AAGTCATCATACCTTACTTGGGTTTGGCGACCTCATAGAGTACATTCC 413

RESULT 6
US-08-442-144A-54
Sequence 54, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: aus1
INDIVIDUAL ISOLATE: aus1
US-08-442-144A-54

Query Match 79.8%; Score 329.6; DB 3; Length 549;
Best Local Similarity 86.9%; Pred. No. 2.9e-88;
Matches 359; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCGAAGTCCCGGGGTGGCGGTGACGATCGTTGGTGAAGTTACTTGTGCGGCGAG 120
DB 61 GACGTTAAGTCCCGGGGTGGCGGTGACGATCGTTGGTGAAGTTACTTGTGCGGCGAG 120
QY 121 GGCCTCGTTGGGTGTGGCGCGACGAGAGAAACCTTGAACGGTCCGAGCGGAGT 180
DB 121 GGCCTTAAGTGGGTGTGGCGCGACGAGAGAAACCTTCCGACGGTCCGACCTGAGGT 180
QY 181 AGAGCCCAACTATACCGAAGGTGCGTCAACCAACGGGCGTACCTGGGCTCAACCCGGG 240
DB 181 AGAGCTCAGCCTATCCCTTAAGGCGGTGCGCCGAGGAGGACCTGGGCTCAGCCGGG 240

Qy	24	TACCCCTGAGCTCTTATATGGAATAGAGGTTGTGCTGAGGAGGGTGGCTCTGTCCCC	300
	241	TACCCCTGAGCTCTTATATGGAATAGAGGTTGTGCTGAGGAGGGTGGCTCTGTCCCC	300
Db	301	CNCGAGCTCTGCGCTTAATTGGGGCCCTTAATGACCCCGGAGGAGGTCCCGCAACTGGGT	360
Qy	301	CGTGGCTCTGGGCTTAGTGGGGCCCTTAAGACCCCCCGGCGTAGGTCCGCGAATTTGGGT	360
Db	361	AAGGTATCATACCTCTTACTTGGGTTGCGCGACCTCATATGATGATCATTTCC	413
Qy	361	AAGGTATCATACCTCTTACTTGGGTTGCGCGACCTCATATGATGATCATTTCC	413
Db	361	AAGGTATCATACCTCTTACTTGGGTTGCGCGACCTCATATGATGATCATTTCC	413

RESULT 7

Sequence 54, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 MAY 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FROM SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: aus1

US-08-441-970-54

Query Match	79.8%	Score 329.6	DB 3	Length 549
Best Local Similarity	86.9%	Pred.No. 2.9e-88		
Matches 359, Conservative	1	Mismatches 53	Indels 0	Gaps 0

QY 1 ATAGGCACTTCTTAACTCAAAGAAAACCAACGAACCAACCGTGGCCACAG 60
Db 1 ATAGGCACGATCTTAACCTCAAGAAAAACCAACCTTAACCAACCGTGGCCACAG 60
QY 61 GAGGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGAAGTTTACTTTGCCCGGAGG 120

DB	6	GACGTTAAGTCCCCGGGTGGCGGTGAGATCGTGGTGAAGTTTACTGTGTCCGCGAGG	120
QY	121	GGCCCTCTGTTGGGTGTGGCGCGACAGAGAAAATTCTGAACGCTCCAGCCAGGGGT	180
Db	121	GGCCCTGAGATGGGTGTGGCGCGACAGAGAAAGATTCTCGAGCGGTGCAACTCGAGAGT	180
QY	181	AGAGCGCAACTATACCGAAGGTGCGTCAACCAACGGGCGCTTACTGGGTCTCAACCGG	240
Db	181	AGACGTGACGTATCCCTTAAGCGCGGTGGCGCCCGAGGGCAGGACTGTGGGCTCAACCGG	240
QY	241	TACCCCTGGCGCTTATATGGGAATAGAGGTGTGGCTGGCGAGGTGGCTCTGTCCCC	300
Db	241	TACCCCTGGCGCTCTATGTATATAGGATTTGCGATGGCGGAGTGGCTCTGTCCCC	300
QY	301	CNCGGCTCTGCGCCTTAATTGGGCGCTTAATGACCCCGAGAGAGTCCGCAACTGGGT	360
Db	301	CGTGGCTCTGGGCTATGTTGGGCGCTTAACAGACCCCGGCGCTAAGTGCAGCAATTTGGGT	360
QY	361	AAGGTATGATACCTTACTTGGNGSTTCCGCACTCATAGAGTACATTC	413
Db	361	AAGGTATGATACCTTACAGTGGGCTTCCGCAACATGGGATACATTC	413

RESULT 8

Sequence 57, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 121
US-08-441-971-57

Query Match	79.4%	Score 328	DB 3	Length 549
Best Local Similarity	86.7%	Pred. No. 8.6e-88		
Matches 358	Conservative 1	Mismatches 54	Indels 0	Gaps 0
QY	1	ATGAGCACTACTCTCTAAACCTCAAGAAAAACCAACGAAACACCAACCGTGGCCACAG	60	
Db	1	ATGAGCAAGATCTCTAAACCTCAAGAAAAACCAACGTAACACCAACCGTGGCCACAG	60	
QY	61	GACGTCAAGTTCCCGGGTGGCGGTCAATCGTTGGTGAAGTTACTTGTGGCGGCAAG	120	
Db	61	GACGTCAAGTTCCCGGGTGGCGGTCAATCGTTGGTGAAGTTACTTGTGTGGCGCAAG	120	
QY	121	GGCCCTGTTTGGGTGTGGCGGCGACGAGAGAAACTTTCGAACGCTCCAGCCAGGGGT	180	
Db	121	GGCCCTAATTTGGGTGTGGCGGCGACGAGAGAAACTTTCGAACGCTTCGAACCTGTGGT	180	
QY	181	AGAGCCCAACTTAACCGAAGGTGCTCAACAAACGAGCGGTACTTGGGCTCAACCCGGG	240	
Db	181	AGAGCCCAAGCTATCCCAAGGCGGTGGGCCGAGAGGAGAGAACTTGGGCTCAAGCCGGG	240	
QY	241	TACCCCTGGCCCTTTATGGGAATGAGGGTTGTGGCTGGGCGAGGGTGGCTCCGTCCCC	300	
Db	241	TACCTTGGCCCTCTATGGCAATAGGGTTTGGGGTGGCGGGAATGGCTCTGTCTCCC	300	
QY	301	CNCGGCTCTGGCTTAATTGGGGCCCTATATGACCCCGGNGAGGTTCCCGCAACTGGGT	360	
Db	301	CGTGGCTCTCGGCTTAGCTGGGGCCCAACAGACCCCGCGTAGTGGCGCAATTGGGT	360	
QY	361	AAGGTCAATCAATCCCTTAATTGNGGTTGGCGACCTCATAGATACACTTCC	413	
Db	361	AAGGTCAATCAATCCCTTAATCGTGGCTTGGCGACCTCATATGGGTACACTTAC	413	

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:
: SEQUENCE CHARACTERISTICS:
:
: LENGTH: 549 nucleotides
:
: TYPE: nucleic acid
:
: STRANDEDNESS: single
:
: TOPOLOGY: linear
:
: MOLECULE TYPE: DNA
:
: ORIGINAL SOURCE:
:
: INDIVIDUAL ISOLATE: 121
:
: US-08-221-653-57

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Query Match	79.4%;	Score 328;	DB 3;	Length 549;
Best Local Similarity	86.7%;	Pred. No. 8.6e-88;		
Matches 358; Conservative	1;	Mismatches 54;	Indels 0;	Gaps 0;

RESULT 10
 US-08-442-144A-57
 ; Sequence 57, Application US/08442144A
 ; Patent No. 6214583
 ; GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 APPLICANT: Eileen Beall
 APPLICANT: Bruce Irvine
 APPLICANT: Janice Kolberg
 APPLICANT: Michael S. Urdia
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 148
 ; CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: California
 COUNTRY: USA
 ZIP: 94608-2916
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 Inch
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows NT
 SOFTWARE: Microsoft Word 97
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/442,144A
 FILING DATE: MAY 16, 1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 121
US-08-442-144A-57

Query Match 79.4%; Score 328; DB 3; Length 549;
Best Local Similarity 86.7%; Pred. No. 8.6e-88;
Matches 358; Conservative 1; Mismatches 54; Indels 0; Gaps 0;

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QY 1 ATGAGCACTTCTTAACTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
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Db 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GAGCTCAAGTTCGGGGTGGCGGTGCGATCGTGGAGTTTACTTGTTCGCGCAG 120
   |||||
Db 61 GAGCTCAAGTTCGGGGTGGCGGTGCGATCGTGGAGTTTACTTGTTCGCGCAG 120
QY 121 GGCCTGTGTTGGGTGGCGGCGGCAAGAAAACTTGTGAACGCTCCGACCGAGGT 180
   |||||
Db 121 GGCCTGTGTTGGGTGGCGGCGGCAAGAAAACTTGTGAACGCTCCGACCGAGGT 180
QY 181 AGAGCCCAACCTATACGGAAGTGGTCAACCAACCGGCGCTACCTGGGCTCAACCGG 240
   |||||
Db 181 AGAGCCCAACCTATACGGAAGTGGTCAACCAACCGGCGCTACCTGGGCTCAACCGG 240
QY 241 TACCCCTGGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTGTCGCC 300
   |||||
Db 241 TACCCCTGGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTGTCGCC 300
QY 301 CNGGCTCTGGCCTTAATGAGGGGCTTAATGACCCCGGAGAGGTCCCGCACTGGGT 360
   |||||
Db 301 CNGGCTCTGGCCTTAATGAGGGGCTTAATGACCCCGGAGAGGTCCCGCACTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGAGTGGCGGACCTCATAGATCATTC 413
   |||||
Db 361 AAGGTCAATGATACCTTACTTGGGAGTGGCGGACCTCATAGATCATTC 413
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RESULT 11

US-08-441-970-57
Sequence 57, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTIONS: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 121
US-08-441-970-57

Query Match 79.4%; Score 328; DB 3; Length 549;
Best Local Similarity 86.7%; Pred. No. 8.6e-88;
Matches 358; Conservative 1; Mismatches 54; Indels 0; Gaps 0;

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QY 1 ATGAGCACTTCTTAACTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
   |||||
Db 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GAGCTCAAGTTCGGGGTGGCGGTGCGATCGTGGAGTTTACTTGTTCGCGCAG 120
   |||||
Db 61 GAGCTCAAGTTCGGGGTGGCGGTGCGATCGTGGAGTTTACTTGTTCGCGCAG 120
QY 121 GGCCTGTGTTGGGTGGCGGCGGCAAGAAAACTTGTGAACGCTCCGACCGAGGT 180
   |||||
Db 121 GGCCTGTGTTGGGTGGCGGCGGCAAGAAAACTTGTGAACGCTCCGACCGAGGT 180
QY 181 AGAGCCCAACCTATACGGAAGTGGTCAACCAACCGGCGCTACCTGGGCTCAACCGG 240
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Db 181 AGAGCCCAACCTATACGGAAGTGGTCAACCAACCGGCGCTACCTGGGCTCAACCGG 240
QY 241 TACCCCTGGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTGTCGCC 300
   |||||
Db 241 TACCCCTGGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTGTCGCC 300
QY 301 CNGGCTCTGGCCTTAATGAGGGGCTTAATGACCCCGGAGAGGTCCCGCACTGGGT 360
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Db 301 CNGGCTCTGGCCTTAATGAGGGGCTTAATGACCCCGGAGAGGTCCCGCACTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGAGTGGCGGACCTCATAGATCATTC 413
   |||||
Db 361 AAGGTCAATGATACCTTACTTGGGAGTGGCGGACCTCATAGATCATTC 413
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RESULT 12

US-08-470-426B-2
Sequence 2, Application US/08470426B
Patent No. 5856458
GENERAL INFORMATION:
APPLICANT: Okamoto, Hiroaki
TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
HEPATITIS VIRUS

```

;
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESS: Beveridge, Degrandi, Wellacher & Young,
; ADDRESSEE: L.I.P.
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,426B
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-153402
; FILING DATE: 12-JUN-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/59-47083.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 536 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
;
; US-08-470-426B-2
;
Query Match          79.0%; Score 326.4; DB 2; Length 536;
Best Local Similarity 86.4%; Pred. No. 2.5e-87;
Matches 357; Conservative 1; Mismatches 55; Indels 0; Gaps 0;
;
QY 1 ATGAGCACACTTCTCTAAACCTCAAGAAAAAACAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACAGATTCCTCAAGAAAAAACAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGAAGTTACTTGTGCGCGCAG 120
DB 61 GACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGAAGTTACTTGTGCGCGCAG 120
QY 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
DB 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
QY 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
DB 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
QY 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
DB 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
QY 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
DB 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
QY 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
DB 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
QY 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
DB 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
QY 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
DB 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
QY 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
DB 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
QY 361 AAGGTCATGATACCTTACTTNGGSGTTGCGCGAAGCTCATAGAGTAATTCC 413
DB 361 AAGGTCATGATACCTTACTTNGGSGTTGCGCGAAGCTCATAGAGTAATTCC 413
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; RESULT 13
; US-08-470-426B-32
; Sequence 32, Application US/08470426B
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; Patent No. 5856458
; GENERAL INFORMATION:
; APPLICANT: Okamoto, Hiroaki
; APPLICANT: Nakamura, Tetsuo
; TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
; TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
; TITLE OF INVENTION: HEPATITIS VIRUS
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESS: Beveridge, Degrandi, Wellacher & Young,
; ADDRESSEE: L.I.P.
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,426B
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-153402
; FILING DATE: 12-JUN-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/59-47083.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
;
; US-08-470-426B-32
;
Query Match          79.0%; Score 326.4; DB 2; Length 540;
Best Local Similarity 86.4%; Pred. No. 2.6e-87;
Matches 357; Conservative 1; Mismatches 55; Indels 0; Gaps 0;
;
QY 1 ATGAGCACACTTCTCTAAACCTCAAGAAAAAACAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACAGATTCCTCAAGAAAAAACAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGAAGTTACTTGTGCGCGCAG 120
DB 61 GACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGAAGTTACTTGTGCGCGCAG 120
QY 61 GACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGAAGTTACTTGTGCGCGCAG 120
DB 61 GACGTCAGTTCCCGGGTGGCGGTCAGATCGTTGGTGAAGTTACTTGTGCGCGCAG 120
QY 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
DB 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
QY 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
DB 121 GACCTCGTTGGGTGGTGGCGGCGACGAGAAAACTTGTGAACGCTCCAGCCAGGGGT 180
QY 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
DB 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
QY 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
DB 181 AGACGCCAACCTATACCGAAGGTGCTGCACCAACGCGGCGTACCTGAGCTCAACCCGGG 240
QY 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
DB 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
QY 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
DB 241 TACCCCTGGCTCTTTATGGGAATGAGGGTTGTGCTGGGCGAGGGTCTCTGTCCCCC 300
QY 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
DB 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
QY 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
DB 301 CNGGCTCTCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGTCGCGCAACCTGGGT 360
QY 361 AAGGTCATGATACCTTACTTNGGSGTTGCGCGAAGCTCATAGAGTAATTCC 413
DB 361 AAGGTCATGATACCTTACTTNGGSGTTGCGCGAAGCTCATAGAGTAATTCC 413
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Db 361 AAGTCATGATACCTCACGTCGCGCTTCCGCGCACTCATGAGGTATACACC 413

RESULT 14

US-08-441-971-53
Sequence 53, Application US/08441971
Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 53:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: us5

US-08-441-971-53

Query Match

Best Local Similarity 86.4%; Score 326.4; DB 3; Length 549;

Matches 357; Conservative 1; Mismatches 55; Indels 0; Gaps 0;

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 1 ATGAGCACTCTTCTAAACCTCAAGAAACCAAAACCAACCAACCGTCGCCACAG 60

Db 181 AGAGTCAGACTTATCCCAAGGCGCGTCGCGCCGAGGCGAGGACCTTGCGCTCAGCCCGG 240

Db 241 TACCCCTGCGCTCTTATGGAATGAGGCTTGTGGCTGGGAGGCTGCTCCGCC 300

Db 241 TACCCCTGCGCTCTTATGGAATGAGGCTTGTGGCTGGGAGGCTGCTCCGCC 300

Db 301 CNGGCTCTGCGCCCTTAATGAGGCGCCCTAATGAGGCGCCGAGGAGGCTCCGCAACTGGGT 360

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Db 361 AAGTCATGATACCTTACTTGGGCTTGGGCGGCGGCGGCTCATGAGTACATTC 413

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Db 361 AAGTCATGATACCTTACTTGGGCTTGGGCGGCGGCGGCTCATGAGTACATTC 413

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Db 361 AAGTCATGATACCTTACTTGGGCTTGGGCGGCGGCGGCTCATGAGTACATTC 413

Db 361 AAGTCATGATACCTTACTTGGGCTTGGGCGGCGGCGGCTCATGAGTACATTC 413

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Db 361 AAGTCATGATACCTTACTTGGGCTTGGGCGGCGGCGGCTCATGAGTACATTC 413

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Db 361 AAGTCATGATACCTTACTTGGGCTTGGGCGGCGGCGGCTCATGAGTACATTC 413

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Db 361 AAGTCATGATACCTTACTTGGGCTTGGGCGGCGGCGGCTCATGAGTACATTC 413

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Db      61  |||||
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          GGCCTCGTTGGGTGTGCGCGCGACGAGAAAATTCTGAACGGTCCCAAGCCAGGGT 180
Db      121  |||||
          GGCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCGAGCGGTGCAACTTCGAGGT 180
Qy      181  |||||
          AGACGCCAACCTATACGAGAGGTGCGTCACCAAAACGGGCCGTACCTGGGCTCAACCCGGG 240
Db      181  |||||
          AGACGTCAGCTATATCCCAAGCGCGTGGCCCGAGGGCAGAACCTGGGCTCAGCCCGG 240
Qy      241  |||||
          TACCCCTGCGCTCTTTATGGGAATAGGAGTGTGGCTGCGCAAGGCTGCTCTGTCGCC 300
Db      241  |||||
          TACCTTGCGCCCTCTATAGCAATGAGGTTGCGGTTGGCGGATGGCTCCTGTCTCCC 300
Qy      301  |||||
          CNGGCTCTCGCCCTTAATTGGGGCCCTTAATGACCCCGGNGAGGTCCCGCAACTGGGT 360
Db      301  |||||
          CGTGGCTCTCGCCCTAGTTGGGGCCCAACAGACCCCGCGCTTAGGTGCGCAATTGGGT 360
Qy      361  |||||
          AAGTCATCGATACCCCTTACTTANGGTTTGGCGGACTCATAGAGTACATTCC 413
Db      361  |||||
          AAGTCATCGATACCCCTTACGTGCGGCTTCGCGGACCAATGGGTTAATAACC 413
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Search completed: January 11, 2006, 10:56:24
Job time : 101.008 secs

ANTI-SENSE: NO
US-08-836-075A-47

Query Match 99.6%; Score 953.6; DB 3; Length 957;
Best Local Similarity 100.0%; Pred. No. 2.5e-247;
Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAGAAACCAAAACCGTGGCCAAATG 60
DB 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAGAAACCAAAACCGTGGCCAAATG 60
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DB 61 GATGTCAAGTTCGGGGGGGGGGGTGAGATCGTGGTGAAGTCTATTGTTACCGGCAAG 120
QY 121 GGGCCACGTTGGGTGTGGCGGCGACGAGAAAGATTGGAAACGGTCCAGGCCAGAGT 180
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QY 181 AGGGGCCAACCAATACCAAGGTGGCGAAGCAAGGCCGAACTGGGGCTCAGCTGGG 240
DB 181 AGGGGCCAACCAATACCAAGGTGGCGAAGCAAGGCCGAACTGGGGCTCAGCTGGG 240
QY 241 TACCCCTGGCCCTTTATGGGAACGAGGGCTGGCGCTGGCGGGTGGCTTTGTCCCCC 300
DB 241 TACCCCTGGCCCTTTATGGGAACGAGGGCTGGCGCTGGCGGGTGGCTTTGTCCCCC 300
QY 301 CGTGGCTTCGGCCGGGACCTGGGAGGCCAATGACCCCGAGAGGTCCCGCAACTGGGT 360
DB 301 CGTGGCTTCGGCCGGGACCTGGGAGGCCAATGACCCCGAGAGGTCCCGCAACTGGGT 360
QY 361 AAGGTCATGACACCCCTCACTTGGGGCTTGGCGGACCTCATGAGATACCTCGTGGT 420
DB 361 AAGGTCATGACACCCCTCACTTGGGGCTTGGCGGACCTCATGAGATACCTCGTGGT 420
QY 421 GGGCGCCCTTGGAGGCGGTGGCGGGAACCTGNAACATGGGTGACAGGCCATCGAGAC 480
DB 421 GGGCGCCCTTGGAGGCGGTGGCGGGAACCTGNAACATGGGTGACAGGCCATCGAGAC 480
QY 481 GGGATTAACCTATGCAACAGGGAATTTCTGCTGCTCTTCTCTATCTTCCTGTTGCA 540
DB 481 GGGATTAACCTATGCAACAGGGAATTTCTGCTGCTCTTCTCTATCTTCCTGTTGCA 540
QY 541 CTTCTCTGCTGCTCAGCAGCGCTGCTCCGCACTAACTATGCTAACTATGCTAACTATG 600
DB 541 CTTCTCTGCTGCTCAGCAGCGCTGCTCCGCACTAACTATGCTAACTATGCTAACTATG 600
QY 601 TATCATCTTAACCAATGACCTGCGCCCAATAGACGATTTGTATGAGCGCAATGGCATG 660
DB 601 TATCATCTTAACCAATGACCTGCGCCCAATAGACGATTTGTATGAGCGCAATGGCATG 660
QY 661 CTGCACTCTCCGGGGTGGGTGCTCCCTGCTGGAAGACCGGCACTTAACCAAGTGGCTG 720
DB 661 CTGCACTCTCCGGGGTGGGTGCTCCCTGCTGGAAGACCGGCACTTAACCAAGTGGCTG 720
QY 721 TCGGCTCCCGGACATTTGGCGGTGGAGATGGGTGTGCTCATGAGGGGTGTCCGCGAG 780
DB 721 TCGGCTCCCGGACATTTGGCGGTGGAGATGGGTGTGCTCATGAGGGGTGTCCGCGAG 780
QY 781 CACGTGACCTTGGTGGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
DB 781 CACGTGACCTTGGTGGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
QY 841 TGGCGTGGGCTTTCTGCTGGTGGGCAATTGTTCACTTCAAGCCAGAGATGATAGATC 900
DB 841 TGGCGTGGGCTTTCTGCTGGTGGGCAATTGTTCACTTCAAGCCAGAGATGATAGATC 900
QY 901 GCCCAGGACTGAACTGTTCACTTCAAGGCGCACTCACTGGGCAACCGAGTGGCG 957
DB 901 GCCCAGGACTGAACTGTTCACTTCAAGGCGCACTCACTGGGCAACCGAGTGGCG 957
```

* RESULT 2

US-08-836-075A-43
Sequence 43, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 43:

SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO

US-08-836-075A-43

Query Match 71.6%; Score 685.2; DB 3; Length 957;
Best Local Similarity 81.6%; Pred. No. 6.4e-175;
Matches 780; Conservative 3; Mismatches 173; Indels 0; Gaps 0;

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QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAGAAACCAAAACCGTGGCCAAATG 60
DB 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAGAAACCAAAACCGTGGCCAAATG 60
QY 61 GATGTCAAGTTCGGGGGGGGGGGTGAGATCGTGGTGAAGTCTATTGTTACCGGCAAG 120
DB 61 GATGTCAAGTTCGGGGGGGGGGGTGAGATCGTGGTGAAGTCTATTGTTACCGGCAAG 120
QY 121 GGGCCACGTTGGGTGTGGCGGCGACGAGAAAGATTGGAAACGGTCCAGGCCAGAGT 180
DB 121 GGGCCACGTTGGGTGTGGCGGCGACGAGAAAGATTGGAAACGGTCCAGGCCAGAGT 180
QY 181 AGGGGCCAACCAATACCAAGGTGGCGAAGCAAGGCCGAACTGGGGCTCAGCTGGG 240
DB 181 AGGGGCCAACCAATACCAAGGTGGCGAAGCAAGGCCGAACTGGGGCTCAGCTGGG 240
QY 241 TACCCCTGGCCCTTTATGGGAACGAGGGCTGGCGCTGGCGGGTGGCTTTGTCCCCC 300
DB 241 TACCCCTGGCCCTTTATGGGAACGAGGGCTGGCGCTGGCGGGTGGCTTTGTCCCCC 300
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Oy 301 CGTGGCTCTCGCCGAGCTGGGGNCCCATATGACCCCCGGAGAGTCCCGCAACTGGGT 360
Db 301 CGCGGCTCTCGCCCAATTTGGGGCCCAACAGACCCCCGGAGAGTCCCGCAACTGGGT 360
Oy 361 AAGGTCAATGACACCTTCACTTGGCGGCTTGGCCGACTCATATGAGTATCATCCCTGTG 420
Db 361 AAGGTCAATGACACCTTCACTTGGCGGCTTGGCCGACTCATATGAGTATCATCCCTGTG 420
Oy 421 GGGGCCCCCTTGGAGGGGCTTGGCGGCAATGAGTATGATGAGGGCCATGAGAGAC 480
Db 421 GGGGCTCGGWTGGAGGGGCTTGGCGGCAATGAGTATGATGAGGGCCATGAGAGAC 480
Oy 481 GGGATTAACATATGACAGAGGAACTTCTCGGTTCTCTTCTATCTTCCCTTGGCA 540
Db 481 GGGATTAACATATGACAGAGGAACTTCTCGGTTCTCTTCTATCTTCCCTTGGCA 540
Oy 541 CTTCCTCGTGCCTTAAACACAGCAGCTTCCGCGGCAATTAACAGAGTCTGGCTG 600
Db 541 CTTCCTCGTGCCTTAAACACAGCAGCTTCCGCGGCAATTAACAGAGTCTGGCTG 600
Oy 601 TATCATTAACCAATGACTGCCCCCAATGAGCAATTTGATAGAGGGCAATGAGATG 660
Db 601 TATCATTAACCAATGACTGCCCCCAATGAGCAATTTGATAGAGGGCAATGAGATG 660
Oy 661 CTGCATCTCCGCGGTTGGCTCCCTGCGTGAAGACCGGCAACCTGACCAAGTGTGGTG 720
Db 661 CTGCATCTCCGCGGTTGGCTCCCTGCGTGAAGACCGGCAACCTGACCAAGTGTGGTG 720
Oy 721 TCGGCTTCCCGGACATTTGGCGGTGAGATGCGTGGTCCATGAGGGGTGTCCGAG 780
Db 721 CAGGCTTCCCGGACATTTGGCGGTGAGATGCGTGGTCCATGAGGGGTGTCCGAG 780
Oy 781 CACGTGACCTTGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
Db 781 CATGTGACATCATGTGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
Oy 841 TCGGCTGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
Db 841 TCGGCTGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
Oy 901 GCCGAGACTGCACTGTTCCATCTATGAGGAGCAATCATCTGAGGACCGAGTGC 956
Db 901 GTCCAGAGGTGTAATGTTCCATCTATGAGGAGCAATCATCTGAGGACCGAGTGC 956

```

RESULT 3
US-08-836-075A-41
Sequence 41, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: STUDYER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155

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; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-41

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Query Match 65.4%; Score 625.4; DB 3; Length 957;
Best Local Similarity 78.0%; Pred. No. 8,7e-159;
Matches 746; Conservative 1; Mismatches 209; Indels 0; Gaps 0;

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Oy 1 ATGAGCACACTTCCAAACCCCAAGAAAACCAAGAAAACCAACCGTCCGCAATG 60
Db 1 ATGAGCACACTTCCAAACCCCAAGAAAACCAAGAAAACCAACCGTCCGCAATG 60
Oy 61 GATGTCAAGTTCCCGGCGGCGGTCAGATGTTGGTGAAGTCTATTGTTACCGCGAG 120
Db 61 GATGTCAAGTTCCCGGCGGCGGTCAGATGTTGGTGAAGTCTATTGTTACCGCGAG 120
Oy 61 GACGTCAAGTTCCCGGCGGCGGTCAGATGTTGGTGAAGTCTATTGTTACCGCGAG 120
Db 61 GACGTCAAGTTCCCGGCGGCGGTCAGATGTTGGTGAAGTCTATTGTTACCGCGAG 120
Oy 121 GGGCCAGTTTGGGTGTGGCGGCGAGAGAGACTTTCGAGACGGTCCAGCGCAAGT 180
Db 121 GGGCCAGTTTGGGTGTGGCGGCGAGAGAGACTTTCGAGACGGTCCAGCGCAAGT 180
Oy 181 AGGGGCCAACAATACCAAGTGTGGCGGAGAACCAAGCGGCAACCTGGGCTCAGC 240
Db 181 AGGGGCCAACAATACCAAGTGTGGCGGAGAACCAAGCGGCAACCTGGGCTCAGC 240
Oy 241 TACCCCTGCGCCCTTATGAGGAACGAGGCTGCGGCTGGGCGGAGTCTTGTCCCC 300
Db 241 TACCCCTGCGCCCTTATGAGGAACGAGGCTGCGGCTGGGCGGAGTCTTGTCCCC 300
Oy 301 CGTGGCTCTCGCCGAGCTGGGAGNCCCAATGACCCCGGAGAGTCCCGCAACTGGGT 360
Db 301 CGCGGCTCTCGCCCAATTTGGGGCCCAACAGACCCCCGGAGAGTCCCGCAACTGGGT 360
Oy 361 AAGGTCAATGACACCTTCACTTGGCGGCTTGGCCGACTCATATGAGTATCATCCCTGTG 420
Db 361 AAGGTCAATGACACCTTCACTTGGCGGCTTGGCCGACTCATATGAGTATCATCCCTGTG 420
Oy 421 GGGGCCCCCTTGGAGGGGCTTGGCGGCAATGAGTATGATGAGGGCCATGAGAGAC 480
Db 421 GGGGCTCGGWTGGAGGGGCTTGGCGGCAATGAGTATGATGAGGGCCATGAGAGAC 480
Oy 481 GGGATTAACATATGACAGAGGAACTTCTCGGTTCTCTTCTATCTTCCCTTGGCA 540
Db 481 GGGATTAACATATGACAGAGGAACTTCTCGGTTCTCTTCTATCTTCCCTTGGCA 540
Oy 541 CTTCCTCGTGCCTTAAACACAGCAGCTTCCGCGGCAATTAACAGAGTCTGGCTG 600
Db 541 CTTCCTCGTGCCTTAAACACAGCAGCTTCCGCGGCAATTAACAGAGTCTGGCTG 600
Oy 601 TATCATTAACCAATGACTGCCCCCAATGAGCAATTTGATAGAGGGCAATGAGATG 660
Db 601 TATCATTAACCAATGACTGCCCCCAATGAGCAATTTGATAGAGGGCAATGAGATG 660
Oy 661 CTGCATCTCCGCGGTTGGCTCCCTGCGTGAAGACCGGCAACCTGACCAAGTGTGGTG 720
Db 661 CTGCATCTCCGCGGTTGGCTCCCTGCGTGAAGACCGGCAACCTGACCAAGTGTGGTG 720

```


NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C. Jefferson Davis Highway, Suite 400
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/127,829
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/446,303
FILING DATE: US 08/074,584
APPLICATION NUMBER: US 08/074,584
FILING DATE: 11-JUN-1993
APPLICATION NUMBER: JP 152487/1992
FILING DATE: 11-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 6063904man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 4169-003-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1037 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Hepatitis C virus
IMMEDIATE SOURCE:
CLONE: pUC010
FEATURE:
NAME/KEY: CDS
LOCATION: 17..1036
US-09-127-829-1

Query Match 58.4%; Score 559; DB 3; Length 1037;
Best Local Similarity 73.8%; Pred. No. 7,3e-141;
Matches 706; Conservative 1; Mismatches 249; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAAACCAAAAGAAACAAACCGTGCCCAATG 60
DB 17 ATGAGCACAATCTTAACCCCAAGAAAAACCAAAAGAAACCAACCGTGCCCAATG 76
QY 61 GATGTCAAGTTCCGCGCGCGCGGTGATGCTGTGTGAGTCTTACTTGTTCACGCGCAGG 120
DB 77 GACGTTAAGTTCCGCGCGCGGTGATGCTGTGTGAGTCTTACTTGTGTGCGCGCAGG 136
QY 121 GGCACAGTTGGGTGTGCGCGCGCGAGAGAGACTTTCGGAACGGTCCAGGCCAGAGT 180
DB 137 GGCACAGTTGGGTGTGCGCGCGAGTACGACTAGAAAGACTTCCGACGGGTGCAACTGTGGA 196
QY 181 AGGCGCAACCAATACCAAGGTGCGCGCAAGCAACCAAGCGCAACCTGAGGCTGAGG 240
DB 197 AGGCGCAACCAATACCAAGGTGCGCGCGCGCGCGAGGCAAGCACTGAGGCTGAGG 256
QY 241 TACCCCTGGCCCTTTTATGGAACGAGGCTGCGGCTGGGCGGGGTGCTTTGTCTCCCC 300
DB 257 TATCTTGGCCCTCTATGCAATGAGGCTTGGGGTGGGCAAGATGGCTCTGTACACC 316

QY 301 CGTGCTCTGCGCCGAGCTGGGAGNCCCATGACCCCGGAGAGTCCCGCAACTGGGT 360
DB 317 GCGGCTCTGCGCTTAATTTGGGGCTTAATGACCCCGGGGTAGTGTGCTTAATTTGGGT 376
QY 361 AAGGTATGACACACCTTCACTTGGGCTTGGCGGACTCATGAGTATCATCTGTGCTT 420
DB 377 AAGGTATGACATACCTTAATATGAGGCTTGGCGGACTCATGAGGCTCATCTGTGCTT 436
QY 421 GCGCGCCCTTGAAGGCGTGGCGCGGAACGTGNAATAGTGTGAGGCGCATGAGGAC 480
DB 437 GCGCGCCCTTGAAGGCGCGCTGCGAGGCGCTGACATGATGTGCGGCTTGGAGGAC 496
QY 481 GGGATTAACATGACAGAGGAATCTTCTGTTGCTCTTCTCTATCTTTCMCTTGGCA 540
DB 497 GCGGTGAATGACAGAGGAATTTCCCGGTTGCTCTTCTCTATCTTCTTGTAGCT 556
QY 541 CTGTCTGTGCTCAGCAGCGCTGCTCGGCACTAATAGCTAACAAGTGGGCTG 600
DB 557 CTGCTGTCTGTGCTCAGCAGCGCTGCTCGGCTAATAGTGGCAAGTGTGCGGATA 616
QY 601 TATCATCTAACCAATGATGCTGCGCAATAGCAGCTTGTATGAGGGAATGCAATATC 660
DB 617 TACCATGTCAACCAAGCACTGTCTCAACTCAAGCAATGTGATGAGGCGGAGCTGATC 676
QY 661 CTGCATCTCCCGGGTGGGTGCTCCCGGTGGAAGACCGGCAACTGACCAAGTGTGAGCTG 720
DB 677 ATGCATGCTCCCGGGTGGGTGCTCCCGGTGGAAGACCAATGCTGCTGAGGATA 736
QY 721 TGGGCTTCCCGGACATTTGGCGGTGAGAAATGCTGTGTCATCAGGGGTGTCGCGAG 780
DB 737 GCGCTCACTCCCAAGCTGCGGCGGAGGAATGCGAGCTCCCACTACGACATTTGACGCG 796
QY 781 CAGGTGACCTTGTGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
DB 797 CAGGTGACCTTGTGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 856
QY 841 TGGGCTTCCCGGACATTTGGCGGTGAGAAATGCTGTGTCATCAGGGGTGTCGCGAG 900
DB 857 TGGGATCTGTTTCTCTATCTCCAGCTGTTCACCTTCTGCTGCTGCTGCTGCTGCTGCTG 916
QY 901 GCGCAGAGCTGCACTGTTCCATCTATGACAGGCCAATCACTGAGGACCGGATGCG 956
DB 917 GTACAGAGCTGCACTGCTCATCTATCCGCGCAGCTATACAGGCACTGATGAGC 972

RESULT 7
US-08-150-204B-96
Sequence 96, Application US/08150204B
Patent No. 6538126
GENERAL INFORMATION:
APPLICANT: CHO, Joong Myung
LEE, Yong Beom
PARK, Young Woo
LIM, Kook Jin
CHOI, Deog Young
KIM, Chun Hyung
SO, Hong Seob
YANG, Jae Young
KIM, Sung Taek
TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: YANG, Jae Young
STREET: 386-1, Doryong-dong, Yuseong-gu
CITY: Daejeon
STATE: Daejeon
COUNTRY: Republic of Korea
ZIP: 305-340
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
COMPUTER: IBM PC/pentium
OPERATING SYSTEM: Windows


```

SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/150,204E
FILING DATE: 20-Apr-1994
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: KR 91-9510
FILING DATE: 10-JUN-1991
APPLICATION NUMBER: KR 91-13601
FILING DATE: 6-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Shahan Islam, Esq.
REGISTRATION NUMBER: 32,507
REFERENCE/DOCKET NUMBER: 2695/FLK
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 940-8564
TELEFAX: (212) 940-8776
INFORMATION FOR SEQ ID NO: 96
SEQUENCE CHARACTERISTICS:
LENGTH: 9472 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
OTHER INFORMATION: KHCV-LBC1, Fig. 2
SEQUENCE DESCRIPTION: SEQ ID NO: 96
US-08-150-204E-96

Query Match      58.4%; Score 559; DB 3; Length 9472;
Best Local Similarity 73.8%; Pred. No. 1.7e-140;
Matches 706; Conservative 1; Mismatches 249; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTCCAAACCCCAAGAAACCAAAAGAAACCAAAACCGTCCCAATG 60
DB 343 ATGAGCACAAATCTCTAAACCTCAAGAAACCAAAAGAAACCAAAACCGTCCCAATG 402
QY 61 GATGCAAGTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
DB 403 GATATTAAGTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 462
QY 121 GCGCCACGTTTGAGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
DB 463 GCGCCACGTTTGAGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 522
QY 181 AGGCGCCAACTATCCCAAGGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
DB 523 AGGCGCCAACTATCCCAAGGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 582
QY 241 TACCCCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
DB 583 TACCCCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 642
QY 301 CGTGGCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 360
DB 643 CGCGGCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 702
QY 361 AAGGTCAATGACACCTCACTTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
DB 703 AAGGTCAATGACACCTCACTTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 762
QY 421 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
DB 763 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 822
QY 481 GGGATTAACCTATGCAACAGGGAATCTTCTGTTGCTCTTCTATCTTCGCTTGA 540
DB 823 GGGCGTAATGCAACAGGGAATCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 882
QY 541 CTTCTCTGCTGCTCAACAGCGCTGCTCGCGCACTAACTATGCTAACTATGCGGCTG 600
DB 883 CTGCTGCTGTTGTTGACCAACCGCACTTTCGCTTATGAAAGTGCCTAACGCGTCCG 942

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QY 601 TATCATTAACCAATGACTGCGCCCAATAGCAGACTTGATGATGAGCGGAATGCGATG 660
DB 943 TACATGTCAGCAAGCACTGCTCCCACTCAAGCACTTGATGATGAGCGGAATGATG 1002
QY 661 CTGCACTCCCGGCTGCGTCCCTGCGTGAAGACCGCAACTGACCAAGTGTGGCTG 720
DB 1003 ATGCACACTCCCGGCTGCGTCCCTGCGTGAAGCAACTCTCCGTTGCTGGGCTG 1062
QY 721 TCGCGCTCCCGCAATGCGCGGTGCAATGCGGTGTCATGACAGGGGTGTCGCGAG 780
DB 1063 GCATTAATCCCAAGCTGCGCGCGCAAGTGCAGCGTCCCACTACGACATTCGAGCG 1122
QY 781 CACGTGACCTCTTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
DB 1123 CATGTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1182
QY 841 TCGCGTGGGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
DB 1183 TCGCGATCTGTTTCTTGTGTTTCCCAAGCTGTTCACTTTCGCTCCCGCGCATGAG 1242
QY 901 GCCAGAGCTGCACTGTTCACTATGACAGCGCACTCACTGCGCAACCGGATGCG 956
DB 1243 GTACAGACTGCACTGCTCACTATTCGCGCGCGGTATCAAGTCAACCGCATGCG 1298

RESULT 8
US-08-324-977-9
Sequence 9, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:

```

```

NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0357
TELEFAX: (202) 659-2930
TELEX: 440142
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1167 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-324-977-9

Query Match      58.1%; Score 555.8; DB 2; Length 1167;
Best Local Similarity 73.6%; Pred. No. 5,6e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

QY      1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAACAAACCAACCGTCCCAATG 60
DB      1 ATGACACAGAACTCTAAACCTCAAGAAAACCAAAACGTAACACCAACCGCCGACAG 60
QY      61 GATGTCAGATTCGGGGGGGGGGGAGATCGTTGGTGGAGTCTACTTTGTAACGGGACAG 120
DB      61 GACGTCAGATTCGGGGGGGGGGGAGATCGTTGGTGGAGTCTACTTTGTCGGGACAG 120
QY      121 GGGCCACGTTGGGTGTGTGCGCGCAGACGAGAGACTTGGAGCGGTCCAGGCGCAGAGT 180
DB      121 GGGCCACGTTGGGTGTGTGCGCGCAGAGAGACTTCCGAGCGGTCCGAACTCTGTGTGA 180
QY      121 GGGCCACGTTGGGTGTGTGCGCGCAGACGAGAGACTTGGAGCGGTCCGAGCGCTGAG 240
DB      121 GGGCCACGTTGGGTGTGTGCGCGCAGAGAGACTTGGAGCGGTCCGAGCGCTGAG 240
QY      181 AGGGCCCAACCAATACCCAAAGGTGGCGCAAGAACCAAGCCGAACTGGGCTCAGCTTGG 240
DB      181 AGGGCCCAACCAATACCCCAAGGTGGCGCGCCGAGAGAGAGACTTGGGCTCAGCG 240
QY      241 TACCCCTGGGCGCCCTTATAGGGAAGAGGCTGGGCGGGGGGCTGTGTCGCCCC 300
DB      241 TACCCCTGGGCGCCCTTATAGGGAAGAGGCTGGGCGGGGGGCTGTGTCGCCCC 300
QY      301 CGTGGCTCTCGCCCGGACTGGGGAGCCCAATGACCCCGGAGGAGGTCCCGCAACTGGGT 360
DB      301 CGCGGCTCCCGGCTAGTTGGGGCCCAACGACCCCGGCGTAAAGTCCGCTAATTGGGT 360
QY      361 AAGGTATATGACACCTTCACTTGGGCTTCCGCACTTATGAGTACATCCCTGTCTT 420
DB      361 AAGGTATATGATACCTTCACTGCGGCTTCCGCACTTATGAGTACATCCCTGTCTT 420
QY      421 GGGGCCCCCTTGAAGGGGTTGGGGGGAACCTGNAACATGNTGTCAGGGGCATGAGAGC 480
DB      421 GGGGCCCCCTTGAAGGGGCGCTGCAAGGGGCTTGGGACATAGTGTCCGGGTTTGGAGAGC 480
QY      481 GGGATTAACCTATGACAAAGGGAATCTTCTGGTGTGCTTTCTCTATCTTCCMTTGGCA 540
DB      481 GGGGGAATATGACAAAGGGAATCTGCGCGGTGTGCTTTCTCTATCTTCTCTTGGT 540
QY      541 CTTCTCTGTGCTTCAACAGCGCTGCTCCGACATTAACCTATGACAAAGTCTGAGCTG 600
DB      541 CTTCTCTGTGCTTCAACAGCGCTGCTCCGACATTAACCTATGACAAAGTCTGAGCTG 600
QY      601 TATCATCTATACCAAGACCTGCCCCCAATACAGACATTTGTATAGAGCGCAATGGCATGATC 660
DB      601 TATCATCTATACCAAGACCTGCTTCAACAGCAATTTGTATAGAGCGGACGCACTTGTATC 660
QY      661 CTGCATCTCTCCCGGTTGCTGCTCCCTGCTGAAGACCGGCAACTGACCAAGTGTGGCTG 720

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DB      661 ATGATATCTCTGGGTGCGTGCCCTGCGTTCCGGGAAGCAATCTCTCCGCTGCTGGGTA 720
QY      721 TCGGCTTCCCGACATTTGGGGGTGACAAATGCGTGTGTCATCAGAGGATGTCGGGAG 780
DB      721 GCGCTCACTCCACAGCTCGACGACGAGCAAGCATCCACACAGACGATACGACGC 780
QY      781 CACGTGACCTCTTGGTGGGTGCTGCTGCGTTCCTGCTCCATAGTACGTGGGCACTTA 840
DB      781 CACGTGACCTCTGCTGCTGTTGGGGCGGCTGCTTCTGTTCCGCTATGATAGTGGGACCTC 840
QY      841 TCGGTGGGCTCTTCTGCTTGGGCACTTGTACGTTCAAGACCCAGATGTATGATC 900
DB      841 TCGGATCTGTTTCTCTGCTCTCAAGCTGTTCACCTTCTGCGCTCCCGCAATGTACA 900
QY      901 GCCCAGACTGCAACTTTCATCTATGACGGCCACATCACTGGGACCGGATGGC 956
DB      901 TTACAGGACTGTAACTGCTCAATTTATCCGGCCATGTGTGGGTACCGTATGGC 956

RESULT 9
US-08-384-616-9
; Sequence 9, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroko
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chiabato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSER: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 9:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..1167
; OTHER INFORMATION: /note: "sequence = 333 - 1499 of
; OTHER INFORMATION: SEQ ID NO: 1"
; NAME/KEY: CDS
; LOCATION: 1..1167
; US-08-384-616-9

Query Match      58.1%; Score 555.8; DB 2; Length 1167;
Best Local Similarity 73.6%; Pred. No. 5,6e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAGAAACCAACCCGTCGCCAATG 60
DB 1 ATGAGCACAACATCTTAACCTTAAGAAAACCAAACTTAACCAACCCGTCGCCAAG 60
QY 61 GATGTCAAGTTCCCGGCGCGCGTCAAGATCGTTGGTGAAGTCTACTTGTTCACCGGCAAG 120
DB 61 GACGTCAAGTTCCCGGCGCGGTGTGATCGATCGTTGGTGAAGTCTACTTGTTCACCGGCAAG 120
QY 121 GGCCCAAGTTGGTGTGTGCGCGCAAGAGAAAGACTTGGAAACGTTCCAGGCGCAAGGT 180
DB 121 GGCCCAAGTTGGTGTGTGCGCGCGCAAGAGAAAGACTTGGAAACGTTCCAGGCGCAAGGT 180
QY 181 AGGCGCCCAACCAATACCAAGGTGGCCAGAACCAAGCCCAACCTGGGCTCAGGCTGG 240
DB 181 AGGCGCCCAACCAATACCAAGGTGGCCAGAACCAAGCCCAACCTGGGCTCAGGCTGG 240
QY 241 TACCCCTGAGCCCTTTATGGAACGAGGCTGCGGCTGGCGGGGTGACTTGTTCGCCCC 300
DB 241 TACCCCTGAGCCCTTTATGGAACGAGGCTGCGGCTGGCGGGGTGACTTGTTCGCCCC 300
QY 301 CGTGACTTCGCGCGGACTGGGAGNCCCAATGACCCCGGAGGAGTCCCGCAACTGGAGT 360
DB 301 CGTGACTTCGCGCGGACTGGGAGNCCCAATGACCCCGGAGGAGTCCCGCAACTGGAGT 360
QY 361 AAGGTCAATGACACCTCACTTGGGCTTCCGCACTCAAGGAATACATCCCTGTCTT 420
DB 361 AAGGTCAATGACACCTCACTTGGGCTTCCGCACTCAAGGAATACATCCCTGTCTT 420
QY 421 GCGCGCCCTTGAAGCGTTGCGGCGAATGGAACATGATGTCAGGCGCATCGAGGAC 480
DB 421 GCGCGCCCTTGAAGCGTTGCGGCGAATGGAACATGATGTCAGGCGCATCGAGGAC 480
QY 481 GGGATTAACCTATGCAACAGGGAATCTTCCTGGTTCTCTTCTATCTTCGCTTGGCA 540
DB 481 GGGATTAACCTATGCAACAGGGAATCTTCCTGGTTCTCTTCTATCTTCGCTTGGCA 540
QY 541 CTCTCTGTGTGCTCAACAGCGTCTCTCCGACATTAAGTATGTAACAAGTGTGGCTG 600
DB 541 CTCTCTGTGTGCTCAACAGCGTCTCTCCGACATTAAGTATGTAACAAGTGTGGCTG 600
QY 601 TATCATCTAACCAATGATGCTGCCCAATAGCAGCATTTGTATGAGGCAATGGCATGATC 660
DB 601 TATCATCTAACCAATGATGCTGCCCAATAGCAGCATTTGTATGAGGCAATGGCATGATC 660
QY 661 CTGCACTTCCCGGATGGTCCCTCGCGTGAAGACCGGCAACCTGACCAAGTGTGGCTG 720
DB 661 CTGCACTTCCCGGATGGTCCCTCGCGTGAAGACCGGCAACCTGACCAAGTGTGGCTG 720
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QY 781 CACGTGACCTTGTGTGGGTGTGCTGTGCTCTGTCATATAGTGTGGGCACTTGA 840
DB 781 CACGTGACCTTGTGTGGGTGTGCTGTGCTCTGTCATATAGTGTGGGCACTTGA 840

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DB 781 CACGTGACCTTGTGTGGGTGTGCTGTGCTCTGTCATATAGTGTGGGCACTTGA 840
QY 841 TCGGCTTCCCGGCTTCTTCTGCTGTGGGCAAGTGTTCACGTTTACAGCCAGATGTATGATC 900
DB 841 TCGGCTTCCCGGCTTCTTCTGCTGTGGGCAAGTGTTCACGTTTCTGCGCGGCAATGTGCA 900
QY 901 GCCCAGACCTCACTGTTCCATCTATGACAGCCACATCATCTGGGCAACCGGATGGC 956
DB 901 TTACAGACCTTAAGTGTCTCAATTATTCGCGGCAATGTGTGGGTCAACCGATATGGC 956

RESULT 10
US-08-904-686A-9
; Sequence 9, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Taro
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Armstrong, Westernman, Hattori, Mcleland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mcleland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid

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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-904-686A-9

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Query Match      58.1%; Score 555.8; DB 2; Length 1167;
Best Local Similarity 73.6%; Pred. No. 5,6e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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QY      1 ATGAGCAGACTTCCAAACCCCAAGAAAGAAACCAAGAAACCAACCGTCCCAATG 60
DB      1 ATGAGCAGAAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGTCCCAAG 60
QY      61 GATGTCAGTTCCCGGCGCGCGGTGAGATCGTTGGTGAAGTCTACTTGTACCGCGCAGG 120
DB      61 GACGTCAGTTCCCGGCGCGGTGAGATCGTTGGTGAAGTCTACTTGTCCCGCGCAGG 120
QY      121 GGGCCAGCTTTGGTGTGCGCGCGAGCAGAGAAAGCTTCGAAACGGTCCAGGCGAGAGT 180
DB      121 GGGCCAGCTTTGGTGTGCGCGCGCGCGCGCGAGAAAGCTTCGAGCGGTCCCACTGTGGA 180
QY      181 AGGCGCCAAACCAATACCAAGGTGCGCGCAAGAACCAAGCGCAAGCTGAGCTGAGCTGAG 240
DB      181 AGGCGCAACCACTATCCCAAGGCTCGCGCGCGCGCGAGAGAGAACTGAGGCTCAGCGCGAG 240
QY      241 TAACCCCTGGCCCCCTTATATGGGAACGAGAGGCTGCGGCGGGGTGAGTCTGTGCCCC 300
DB      241 TACCTTGGCTCTCTATATGGCAATAGAGGCTTAAAGGTGAGGAGTGGCTCTGTACCC 300
QY      301 CGTGGCTCTCGCGCGGACTGAGGAGCCCAATGACCCCGAGAGAGGTCCCGCAACTGGAGT 360
DB      301 CGCGGCTCCCGGCTAGTGGGGGCCCAAGGACCCCGCGCGTAAAGTCCGATTAATTTGGGT 360
QY      361 AAGTCATGACACCTTCACTTGGCGCTTGGCGCACTTCATGAGTAACTCCCTGTGCTT 420
DB      361 AAGTCATGATACCTTCACTGCGGCTTGGCGCACTTCATGAGTAACTCCCTGTGCTT 420
QY      421 GGGCGCCCCCTTGGAGGCGTTGGCGGGAACGTGAAACATGTGTCAAGGCGCATCAGAGAC 480
DB      421 GGGCGCCCCCTTGGAGGCGCTTGGCGGCGCTGCAAGGCGCTGCAATGATGTCTGAGAGAC 480
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DB      481 GGGCGAATATGACAAAGAGGAATCTGCGCGGTTGCTCTTCTTCTATCTTCTCTTGGCT 540
QY      541 CTCTCTGTGCTTCAACAGCGCTTGGCTTCCGACATTAAGTATGATCAAGTCTGGGCTG 600
DB      541 CTGCTGTCTGTGCTTCAACAGCGCTTCCGCTTCCGCTTACGAAGTCAACAACGTGCCGAGTA 600
QY      601 TATCATCTAACAATGACTGCCCCCAATAGCAATATGTGTATGAGCGCAATGGCAGTATC 660
DB      601 TATCATGTACAGAAAGACTGTCTCAACGCAACATTTGTATGAGGAGCGGAGCTTTGATC 660
QY      661 CTGACATCTCCCGGGTTGCGTCCCTGCGTGAAGACCGGCAACCTGACCAAGTGTGGCTG 720
DB      661 ATGCAATCTCTGGGTGCTGCTGCTGCTGCTGCGTGGGAAGGAACTCTCCCGCTGTGGGTA 720
QY      721 TCGGCTCTCCGACATTGGCGGTGAGAAATGCGTGTGTCATCAAGGGGTGTCCGAG 780
DB      721 GCGCTACCTCCACGCTCGACAGCAGAAAGTCAACATCCCAACACGACGATAGAGCGC 780
QY      781 CACGTGACACTTGTGTGGGTGCTGTGTGCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGT 840
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QY      841 TGGCGTGGCTCTTCTGTGTTGGGCACTGTTCACTTCAGACCCAGATGATGAGATC 900
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QY      901 GCCCAGCTGCAACTGTTCCATTTATGACAGGCCAATCACTGGGCAACCGGATGCG 956
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RESULT 11

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US-09-315-850-9
; Sequence 9, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chiato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESS: Armstrong, Westerman, Hattori, Mcleland &
; ADDRESS: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/315,850
; FILING DATE:
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686
; FILING DATE: 01-AUG-1997
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mcleland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

```

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?      TOPOLOGY: linear
?      MOLECULE TYPE: cDNA from genomic RNA
?
?      FEATURE:
?      NAME/KEY: misc feature
?      LOCATION: 1..1167
?      OTHER INFORMATION: /note: "sequence = 333 - 1499 of
?      OTHER INFORMATION: SEQ ID NO: 1"
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?      FEATURE:
?      NAME/KEY: CDS
?      LOCATION: 1..1167
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?      US-09-315-850-9

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Query Match	58.1%;	Score 555.8;	DB 3;	Length 1167;
Best Local Similarity	73.6%;	Pred. No. 5.6e-140;		
Matches 704; Conservative	1;	Mismatches 251;	Indels 0;	Gaps 0;

Qy	ATGAGCAGCATTCCAAACCCCAAGAAAAACAAAGAAACAAACACCAACCCGTGGCCAAATG	60
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Db	121 GGCCCAAGTTGGGTGTGCGCGGCCACAGAGAAAGACTTCCAGACGGTGCACACTCGTGA	180
Qy	181 AGCGCGCAACCAATFACCCAAGGTGCGCCAGAACCAAGGCCCAACCTGGGCTCAGCCTGGG	240
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Db	301 CGGAGCTTCCGGCTTATGTTTGGGAGCCCAACGAGACCCCGGCGGTAGGTGCGTAATTTGGGT	360
Qy	361 AAGGTATGACACACCTTCACTTGGCGCTTTCGCGACTCATGAGATCAATCCCTGTGTT	420
Db	361 AAGGTATGATGATTCCTTCATGATCGGCTTTCGCGACTCATGAGGATCAATTCCTGTGTC	420
Qy	421 GGGGCCCCCTTGGAGGCGTGTGCGCGGAACTGGAACTGGTGTCAAGGCCATCGAGGAC	480
Db	421 GGGGCCCCCTTGGGGGGCGCTCCACAGGGCCCTGGGACATGGTGTTCGCGGTTCTGGAGGAC	480
Qy	481 GGGATTAACATATGACACAGAGAAATCTCTCGGTGCTCTTCTCTATCTTCGCTGGGCA	540
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Qy	541 CTTCTCTGCTCTACCAAGCCTGCTCCGACATTAACATATGCTAACAACTGGGCTG	600
Db	541 CTGCTGTCTGCTCTGACCAACCCACACTTCCGCTTACGAAGTGACCAACGATGTCGGGATA	600
Qy	601 TATCATCTTAACCAATGACCTGCCCAATAGACAAATGTGTATGAGGGAAATGGAGATAC	660
Db	601 TATCATATGTACAGAACCACTGTCTCAACGCAACCAATTTGTATGAGGACAGCGCAATTGATC	660
Qy	661 CTTCATCTCCCGGGTGTGCTCCCTGCGGTGAAGACCGGCAACTGACCAAGTGTGGCTG	720
Db	661 ATTCATATCTCTGGGTGGGTGCGTGTGCGTGTGGGGAAGCACTCTCCGCTGTGTGGGTA	720
Qy	721 TGGGCTTCCCGACATTTGGCGGTGCAAAATGCGTGTGCTCATCAAGGGGTGTCCCGAG	780
Db	721 GCGCTCACTCCACCGCTCCGACACAGAAACGTCAACATCCCAACACAGAGATATGACGC	780
Qy	781 CAGGTGAACCTTTTGGTGGTGTCTGTGGGTTCTGCTGTGCATGTACGTGGGCAATTA	840
Db	781 CAGGTGATCTGTCTGTGGGGCGGCTGTTTCTGTTCGGTATGTACGTGGGGAATCTC	840
Qy	841 TCGGTGGGCTCTTCTCGTTGGGACGTTGTTCACTTTCAGACCCAGAGATATGAGATC	900

Dd 841 TGGGATCTGTTTCTCGTCTCTAGCTGTTCACCTTCTGCGCTCGCCGCAGTAGACA 900

Qy 901 GCCCAGACTGCNACTGTTCCATTATGCAAGGCCAATCACTGGGACCGGATGGC 956

Dd 901 TTACAGACTGTAACTGCTCAATTATCCCGGCATGTGTGGGTCAACCGATATGGC 956

RESULT 12
US-08-324-977-3

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GENERAL INFORMATION:
PATENT NO. 5747539
APPLICANT: OKAYAMA, Hiroo
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499

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FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
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US-08-324-977-3

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Query Match      58.1%; Score 555.8; DB 2; Length 1499;
Best Local Similarity 73.6%; Pred. No. 6,1e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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RESULT 13
US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chieko
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
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; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
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US-08-384-616-3

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Query Match 58.1%; Score 555.8; DB 2; Length 1499;

Best Local Similarity 73.6%; Pred. No. 6.1e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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QY 61 GATGCAAGTTCCCGGGGCGGCGGTGAGATCGTGTGTGAGAGTCTACTTTGTAACCGGCAGG 120
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RESULT 14
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; Sequence 3, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:

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APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Ieao
APPLICANT: MORI, Chiato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
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US-08-904-686A-3

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Query Match 58.1%; Score 555.8; DB 2; Length 1499;
Best Local Similarity 73.6%; Pred. No. 6.1e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

QY 1 ATGAGACACTCTCCAAAAACCCCAAGAAAAACAACAAACCGTCGCCAATG 60
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QY 61 GATGTCAGATTTCCCGGCGCGGCTCAATCGTTGGAGTCTACTTTTAAACCGCGCAGG 120
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QY 361 AAGGTCATGACACCCCTCACTTGGCGCTTCCGCGAGCTCATAGAGTACATCCCTGCGTT 420
Db 693 AAGGTCATGATACCTCTCAATGCGGCTTCCGCGAGTCTCATAGGGGTATCATTCGCTGTC 752
QY 421 GAGCGCCCCCTTGAAGCGGTTGGCGGAGAACTGNAACATGCTGTCAGGGCCATCGAGAC 480
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; Patent No. 6217872

; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato

APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315,850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
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APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
MOLECULE TYPE: cdna from genomic RNA
FEATURE:
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LOCATION: 333..1499
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US-09-315-850-3

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OM nucleic - nucleic search, using sw model

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	270.4	79.5	340	US-08-441-971-11	Sequence 11, Appl
5	270.4	79.5	340	US-08-221-653-11	Sequence 11, Appl
6	270.4	79.5	340	US-08-442-144A-11	Sequence 11, Appl
7	270.4	79.5	340	US-08-441-970-11	Sequence 11, Appl
8	267.2	78.6	340	US-08-441-971-12	Sequence 12, Appl
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13	267.2	78.6	3750	US-08-191-160-22	Sequence 22, Appl
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15	265.6	78.1	340	US-08-441-971-9	Sequence 9, Appl
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23	264	77.6	1782	US-09-597-877-11	Sequence 11, Appl
24	262.4	77.2	340	US-08-441-971-10	Sequence 10, Appl

25	262.4	77.2	340	US-08-221-653-10	Sequence 10, Appl
26	262.4	77.2	340	US-08-442-144A-10	Sequence 10, Appl
27	262.4	77.2	340	US-08-441-970-10	Sequence 10, Appl
28	262.4	77.2	9472	US-08-150-204E-96	Sequence 96, Appl
29	261.8	77.0	9413	US-09-827-688-6	Sequence 6, Appl
30	261.8	76.8	340	US-08-836-075A-67	Sequence 67, Appl
31	260.8	76.7	340	US-09-878-281A-213	Sequence 213, App
32	260.2	76.5	6189	US-10-259-275-41	Sequence 41, Appl
33	260.2	76.5	7989	US-09-539-601-4	Sequence 4, Appl
34	260.2	76.5	7992	US-10-005-469-10	Sequence 10, Appl
35	260.2	76.5	7992	US-10-005-469-2	Sequence 2, Appl
36	260.2	76.5	7992	US-10-005-469-4	Sequence 4, Appl
37	260.2	76.5	7992	US-10-005-469-5	Sequence 5, Appl
38	260.2	76.5	7992	US-10-005-469-6	Sequence 6, Appl
39	260.2	76.5	7995	US-10-005-469-3	Sequence 3, Appl
40	260.2	76.5	8001	US-09-539-601-7	Sequence 7, Appl
41	260.2	76.5	8001	US-09-539-601-22	Sequence 22, Appl
42	260.2	76.5	8001	US-09-539-601-28	Sequence 28, Appl
43	260.2	76.5	8637	US-09-539-601-4	Sequence 4, Appl
44	260.2	76.5	8638	US-10-029-907-6	Sequence 6, Appl
45	260.2	76.5	8638	US-10-029-907-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-53
Sequence 53, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

```
/ ANTI-SENSE: NO
US-08-836-075A-53
Query Match          99.9%; Score 339.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 2.6e-95;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGATGACATCCGTGCGAGGAATCAATATACCAATGTTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCCGTGCGAGGAATCAATATACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCAACCGAGCGCTGTATCATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCAACCGAGCGCTGTATCATCGGGGGCCC 120
QY 121 YCTAACCAATTCAAAAGAGACAGAACTGCGGCTACCGTGTGTCGCCGCCAGCGGCTGCT 180
DB 121 YCTAACCAATTCAAAAGAGACAGAACTGCGGCTACCGTGTGTCGCCGCCAGCGGCTGCT 180
QY 181 GACTACAGCTGCGGCAACACCTGACATGCTACTTGAAGCCAGAGCGGCGCTGTGAGC 240
DB 181 GACTACAGCTGCGGCAACACCTGACATGCTACTTGAAGCCAGAGCGGCGCTGTGAGC 240
QY 241 TGCAAAGCTCCGCGAGCTGACACCATGCTGCTGTGCGGGAGTGAACCTTGTCTATCTGTGA 300
DB 241 TGCAAAGCTCCGCGAGCTGACACCATGCTGCTGTGCGGGAGTGAACCTTGTCTATCTGTGA 300
QY 301 GAGTCCGGGAGTTCGAGAGAACGCGGCGCAACTTACGAGCT 340
DB 301 GAGTCCGGGAGTTCGAGAGAACGCGGCGCAACTTACGAGCT 340

RESULT 2
US-08-836-075A-55
; Sequence 55, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
```

```
/ LENGTH: 340 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
US-08-836-075A-55
Query Match          89.2%; Score 303.2; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 4.7e-84;
Matches 314; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGATGACATCCGTGCGAGGAATCAATATACCAATGTTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCCGTGCGAGGAATCAATATACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCAACCGAGCGCTGTATCATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCAACCGAGCGCTGTATCATCGGGGGCCC 120
QY 121 YCTAACCAATTCAAAAGAGACAGAACTGCGGCTACCGTGTGTCGCCGCCAGCGGCTGCT 180
DB 121 YCTAACCAATTCAAAAGAGAGAGGAGAACTGCGGCTACCGTGTGTCGCCGCCAGCGGCTGCT 180
QY 181 GACTACAGCTGCGGCAACACCTGACATGCTACTTGAAGCCAGAGCGGCGCTGTGAGC 240
DB 181 GACTACAGCTGCGGCAACACCTGACATGCTACTTGAAGCCAGAGCGGCGCTGTGAGC 240
QY 241 TGCAAAGCTCCGCGAGCTGACACCATGCTGCTGTGCGGGAGTGAACCTTGTCTATCTGTGA 300
DB 241 TGCAAAGCTCCGCGAGCTGACACCATGCTGCTGTGCGGGAGTGAACCTTGTCTATCTGTGA 300
QY 301 GAGTCCGGGAGTTCGAGAGAACGCGGCGCAACTTACGAG 338
DB 301 GAGTCCGGGAGTTCGAGAGAACGCGGCGCAACTTACGAG 338

RESULT 3
US-08-836-075A-57
; Sequence 57, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
```

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-57

Query Match 88.8%; Score 302; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 1.1e-83;
Matches 314; Conservative 2; Mismatches 22; Indels 0; Gaps 0;

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QY 1 CTCGACAGTTACTGAGATGACATCCGTGTCGAGGATATATACCAATGTTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCCGTGTCGAGGATATATACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTCACCGAGCGGCTGTACATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTCACCGAGCGGCTGTATATCGGGGGTCC 120
QY 121 YCTAACCAATTCAAAAGACAGAACTGCGGGCTACCGTCCGTCGCCGACGGCGGTGCT 180
DB 121 CTTAACCAACTCAAAAGGCGAAGCTGCGGCTACCGTCCGTCGCCGACGGCGGTGCT 180
QY 181 GACTACCAAGCTCGGGCAACACCTGTGACTTGTAAAGCCAGAGCGGGCTGTGAGC 240
DB 181 GACTACCAAGCTCGGGTAATCCCTCATGTTACTTTAAAGCCAGAGCGGGCTGTGAGC 240
QY 241 TCGCAAGCTCCGGGACTGCAACATGCTGTGTGCGGGATGACCTTGTGTTATCTGTGA 300
DB 241 TCGCAAGCTCCAGAGCTGCAACATGCTGTGTGCGGGATGACCTTGTGTTATCTGTGA 300
QY 301 GAGTCCGGGAGTCGAGAGAAAGCGGGCGCACTTACGAG 338
DB 301 GAGTCCGGGAGTCGAGAGAGATGCGGCGCACTTACGAG 338
```

RESULT 4

US-08-441-971-11
Sequence 11, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528

FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ep1
US-08-441-971-11

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

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QY 1 CTCGACAGTTACTGAGATGACATCCGTGTCGAGGATATATACCAATGTTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCCGTGTCGAGGATATATACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTCACCGAGCGGCTGTACATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTCACCGAGCGGCTGTATATCGGGGGTCC 120
QY 121 YCTAACCAATTCAAAAGACAGAACTGCGGGCTACCGTCCGTCGCCGACGGCGGTGCT 180
DB 121 CTTAACCAACTCAAAAGGCGAAGCTGCGGCTACCGTCCGTCGCCGACGGCGGTGCT 180
QY 181 GACTACCAAGCTCGGGCAACACCTGTGACTTGTAAAGCCAGAGCGGGCTGTGAGC 240
DB 181 GACTACCAAGCTCGGGTAATCCCTCATGTTACTTTAAAGCCAGAGCGGGCTGTGAGC 240
QY 241 TCGCAAGCTCCGGGACTGCAACATGCTGTGTGCGGGATGACCTTGTGTTATCTGTGA 300
DB 241 TCGCAAGCTCCAGAGCTGCAACATGCTGTGTGCGGGATGACCTTGTGTTATCTGTGA 300
QY 301 GAGTCCGGGAGTCGAGAGAAAGCGGGCGCACTTACGAG 338
DB 301 GAGTCCGGGAGTCGAGAGAGATGCGGCGCACTTACGAG 338
```

RESULT 5

US-08-221-653-11
Sequence 11, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ep1
US-08-221-653-11

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTTCAGATGATGATCCGTGTCGAGGATCATATATACCAATGTTGACTT 60
DB 1 CTCACAGTCATCTAGAGATGATCCGTGTTGAGAGATCAATTTACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTACATCGGGGGCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCACAGAGCGGCTGTACATCGGGGGTCC 120
QY 121 YCTAACCAATTCAAAAGGACAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
DB 121 YCTAACCAATTCAAAAGGAGGAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
QY 121 CTTGACTAATTCAAAAGGAGGAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
DB 121 CTTGACTAATTCAAAAGGAGGAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
QY 181 GACTACCACTGCGGAGCAACCTCTGATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACTACCACTGCGGAGCAACCTCTGATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCACATGCTCTCACTTTGAAGGCTCTGCGGCTGTGAGC 240
DB 241 TGCAGAGCTCCAGAGCTGCACATGCTCTCACTTTGAAGGCTCTGCGGCTGTGAGC 240
QY 301 GAGTGGGAGGTCGAGGAGAGAGCGCGGCAACCTACAG 338
DB 301 GAGTGGGAGGTCGAGGAGAGAGCGCGGCAACCTACAG 338
QY 301 GAGCGCGGAGGCCAAGAGAGAGCGCGGCAACCTACAG 338
DB 301 GAGCGCGGAGGCCAAGAGAGAGCGCGGCAACCTACAG 338

RESULT 6
US-08-442-144A-11
Sequence 11, Application US/08442144A

GENERAL INFORMATION:
PATENT NO. 6214583
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville

STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ep1
US-08-442-144A-11

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTTCAGATGATGATCCGTGTCGAGGATCATATATACCAATGTTGACTT 60
DB 1 CTCACAGTCATCTAGAGATGATCCGTGTTGAGAGATCAATTTACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTACATCGGGGGCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCACAGAGCGGCTGTACATCGGGGGTCC 120
QY 121 YCTAACCAATTCAAAAGGACAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
DB 121 YCTAACCAATTCAAAAGGAGGAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
QY 121 CTTGACTAATTCAAAAGGAGGAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
DB 121 CTTGACTAATTCAAAAGGAGGAGAACTGGCGGCTACCTCGGTCCCGCGGAGGGGTGCT 180
QY 181 GACTACCACTGCGGAGCAACCTCTGATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACTACCACTGCGGAGCAACCTCTGATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCACATGCTCTCACTTTGAAGGCTCTGCGGCTGTGAGC 240
DB 241 TGCAGAGCTCCAGAGCTGCACATGCTCTCACTTTGAAGGCTCTGCGGCTGTGAGC 240
QY 301 GAGTGGGAGGTCGAGGAGAGAGCGCGGCAACCTACAG 338
DB 301 GAGTGGGAGGTCGAGGAGAGAGCGCGGCAACCTACAG 338
QY 301 GAGCGCGGAGGCCAAGAGAGAGCGCGGCAACCTACAG 338
DB 301 GAGCGCGGAGGCCAAGAGAGAGCGCGGCAACCTACAG 338

RESULT 7
US-08-441-970-11
Sequence 11, Application US/08441970

GENERAL INFORMATION:
PATENT NO. 6297370
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-441-970-11

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGATGACATCCGTCGAGGAGATCAATATACCAATGTTGACTT 60
DB 1 CTCACAGTCACTGAGAGTGAATCCGTTTGAAGTCAATTTACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGCCATTAAGTCGCTACCGAGCGGCTGTACATCGGGGCGC 120
DB 61 GGGCCCCGAGGCTCGCAAGCCATTAAGTCGCTACCGAGCGGCTGTACATCGGGGCGC 120
QY 121 YCTAACCAATTCAAAAGACAGAACTGCGGCTACCGTCCGCGCCAGGCGGTGCT 180
DB 121 CTTGACTAATTTAAAGGCGAGAACTGCGGCTATCGCGCTGCCGCGAAGCGGCTGCT 180
QY 181 GACTACGAGCTGCGGCAACACCTGACATGCTACTTTAAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACGACTACGCTGCGGTAACACCTTCAATGTTTAAAGGCTCTGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCGGAAGCTGACCATGCTGTCGCGGAGATGACTTGTCTATCTGTGA 300
DB 241 TGCAGAGCTCCGGAAGCTGACCATGCTGTCGCGGAGATGACTTGTCTATCTGTGA 300
QY 301 GAGTCCGGGAGTTCAGAGAGAGAGCGGCGCAACTTACGAG 338
DB 301 GAGCGCGGGAGACCAAGAGAGAGCGGCGCAACTTACGAG 338

RESULT 8
US-08-441-971-12
Sequence 12, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-441-971-12

Query Match 78.6%; Score 267.2; DB 3; Length 340;
Best Local Similarity 86.7%; Pred. No. 6.5e-73;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGATGACATCCGTCGAGGAGATCAATATACCAATGTTGACTT 60
DB 1 CTCACAGTCACTGAGAGTGAATCCGTTTGAAGTCAATTTACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGCCATTAAGTCGCTACCGAGCGGCTGTACATCGGGGCGC 120
DB 61 GGGCCCCGAGGCTCGCAAGCCATTAAGTCGCTACCGAGCGGCTGTACATCGGGGCGC 120
QY 121 YCTAACCAATTCAAAAGACAGAACTGCGGCTACCGTCCGCGCCAGGCGGTGCT 180
DB 121 CTTGACTAATTTAAAGGCGAGAACTGCGGCTATCGCGCTGCCGCGAAGCGGCTGCT 180
QY 181 GACTACGAGCTGCGGCAACACCTGACATGCTACTTTAAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACGACTACGCTGCGGTAACACCTTCAATGTTTAAAGGCTCTGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCGGAAGCTGACCATGCTGTCGCGGAGATGACTTGTCTATCTGTGA 300
DB 241 TGCAGAGCTCCGGAAGCTGACCATGCTGTCGCGGAGATGACTTGTCTATCTGTGA 300
QY 301 GAGTCCGGGAGTTCAGAGAGAGAGCGGCGCAACTTACGAG 338
DB 301 GAGCGCGGGAGACCAAGAGAGAGCGGCGCAACTTACGAG 338

RESULT 9

US-08-221-653-12

Sequence 12, Application US/08221653
Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: Wordperfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5sp3

US-08-221-653-12

Query Match 78.6%; Score 267.2; DB 3; Length 340;

Best Local Similarity 86.7%; Pred. No. 6.5e-73;

Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTACTGAGATGACATCCGTGTCGAGGATCAATATACCAATGTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 CTCACAGTCATCTGAGATGACATCCGTGTTGAGAGTCAATCTACCATGTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTACCGAGCGGCTGTACATCGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTACCGAGCGGCTGTACATCGGGGGTC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 YCTAACCAATTTCAAAAGGACAGAACTGCGGCTACCGTCCGCGCCAGCGGGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 121 CCTGACTAATTTCAAAAGGCGCAGAACTGCGGCTATCGCCGCGTCCGCGCAAGCGGGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 GACTACACAGCTGGGCAACACCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 181 GACGACTAGCTGGGTAATACCTCTACATGTTACCTGAAGGCCAAGCGGCTGTGAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 TSCAAAGCTCGGGAGCTGCAACATGCTGTGTGCGGGGATGACCTTGTCTGTGTA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 241 TSCAAAGCTCGGGAGCTGCAACATGCTGTGTGCGGGGATGACCTTGTCTGTGTA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

DB 241 TCGCAAGCTCCAGGACTGCACATGCTCGTGTGCGGTGACGACCTTGTATCTGTGA 300

QY 301 GAGTGGGGAGTTCGAGGAAGACGGCGGAACCTTACGAG 338

DB 301 GAGCGCGGGACCCAGAGGACGCGCGAGGCTTACGAG 338

RESULT 10

US-08-442-144A-12

Sequence 12, Application US/08442144A

Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

APPLICANT: Eileen Beall

APPLICANT: Bruce Irvine

APPLICANT: Janice Kolberg

APPLICANT: Michael S. Urdea

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 148

CORRESPONDENCE ADDRESS:

ADDRESSEE: Chiron Corporation

STREET: 4560 Horton Street

CITY: Emeryville

STATE: California

COUNTRY: USA

ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows NT

SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/442,144A

FILING DATE: MAY 16, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653

FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Doreen Yanko Trujillo

REGISTRATION NUMBER: 35,719

REFERENCE/DOCKET NUMBER: CHIR-0121

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-568-3100

TELEFAX: 215-568-3439

TELEX:

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 Nucleotides

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5sp3

US-08-442-144A-12

Query Match 78.6%; Score 267.2; DB 3; Length 340;

Best Local Similarity 86.7%; Pred. No. 6.5e-73;

Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTACTGAGATGACATCCGTGTCGAGGATCAATATACCAATGTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 CTCACAGTCATCTGAGATGACATCCGTGTTGAGAGTCAATCTACCATGTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTACCGAGCGGCTGTACATCGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCGCTACCGAGCGGCTGTACATCGGGGGTC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 YCTAACCAATTTCAAAAGGACAGAACTGCGGCTACCGTCCGCGCCAGCGGGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 121 CCTGACTAATTTCAAAAGGCGCAGAACTGCGGCTATCGCCGCGTCCGCGCAAGCGGGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```


QY 181 GACTACAGCTGGGCAACACCTGACATGCTACTTGAAGGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGGGTAAATACCTTCACATGTTACTGAAAGGCAAGTGGCGCTGTGAGC 240
QY 241 TCGAAGCTCCGGGAGCTGACCATGCTGTGTGCGGGAGTGAACCTTGTGTTATCTGTGA 300
DB 241 TCGGAAGCTCCAGAGCTGACCAATGCTGTGTGCGGTGACGACCTTGTGTTATCTGTGA 300
QY 301 GAGTGGGGAGTTCAGAGAGAGCGGCGCACTTACGAG 338
DB 301 GAGCGGGGAGCCAGAGAGAGCGGCGGAGCTTACGAG 338

RESULT 11
US-08-441-970-12
; Sequence 12, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns59p3
US-08-441-970-12

Query Match 78.6%; Score 267.2; DB 3; Length 340;
Best Local Similarity 86.7%; Pred. No. 6.5e-73;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACGATTACTGGAATGATCGGTGAGGAATCAATATCCATGTTGACTT 60
DB 1 CTCGAAGCTGCTGAGAGGATCGGTGAGGAATCAATATCCATGTTGACTT 60
61 GGCCCCGAGGCTCCCAAGGCATTAAGTCTGACCGGCGGCTGTACATCGGGGCGCC 120

DB 61 GGCCCCGAGGACAGACAGGCTAATAGTCCCTCAACAGAGCGGCTTTTACATCGGGGCTCC 120
QY 121 YCTAACGAATTCAAAAGGAGAGAACTGGGCTACCGTGGTGGCGGCGCAGCGGCT 180
DB 121 CCTGACTAATTCAAAAGGAGAGAACTGGGCTATGCGCGGCGCAGCGGCT 180
QY 181 GACTACAGCTGGGCAACACCTGACATGCTACTTGAAGGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGGGTAAATACCTTCACATGTTACTGAAAGGCAAGTGGCGCTGTGAGC 240
QY 241 TCGAAGCTCCGGGAGCTGACCATGCTGTGTGCGGGAGTGAACCTTGTGTTATCTGTGA 300
DB 241 TCGGAAGCTCCAGAGCTGACCAATGCTGTGTGCGGTGACGACCTTGTGTTATCTGTGA 300
QY 301 GAGTGGGGAGTTCAGAGAGAGCGGCGCACTTACGAG 338
DB 301 GAGCGGGGAGCCAGAGAGAGCGGCGGAGCTTACGAG 338

RESULT 12
US-08-191-160-3
; Sequence 3, Application US/08191160
; Patent No. 6210675
; GENERAL INFORMATION:
; APPLICANT: Highfield, Peter Edmund
; APPLICANT: Rodgers, Brian Colin
; APPLICANT: Tedder, Richard Seton
; APPLICANT: Barbara, John Anthony James
; TITLE OF INVENTION: Viral Agent
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figs, Ernst & Kurz
; STREET: 1700 K Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 KB storage
; COMPUTER: IBM AT compatible
; OPERATING SYSTEM: MS-DOS V3.2
; SOFTWARE: Wordperfect 5.0 (DOS text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/191,160
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/628,516
; FILING DATE: 17 DEC 1990
; APPLICATION NUMBER: UK 89 28 562.1
; FILING DATE: 18 DEC 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 414.0
; FILING DATE: 27 FEB 1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 814.1
; FILING DATE: 03 MAR 1990
; ATTORNEY/AGENT INFORMATION:
; NAME: E. Anthony Figs
; REGISTRATION NUMBER: 27,195
; REFERENCE/DOCKET NUMBER: 1645-103A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 833-5740
; TELEFAX: (202) 833-5744
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1770 base pairs
; TYPE: nucleotide with corresponding protein
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to genomic RNA
; ORIGINAL SOURCE:
; ORGANISM: human; serum infectious for PT-NANBH

IMMEDIATE SOURCE:
LIBRARY: clone J62 from cDNA library in lambda gt11
FEATURE: from 1 to 1770 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: probably encodes viral non-structural
OTHER INFORMATION: proteins
US-08-191-160-3

Query Match 78.6%; Score 267.2; DB 3; Length 1770;
Best Local Similarity 86.7%; Pred. No. 1.2e-72;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGATGACATCCGTGTCGAGGAATCAATATCCATGTTGACTT 60
DB 1281 CTCACAGTCACTGAGATGACATCCGTGTCGAGGAATCAATATGTTGACTT 1340
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCTGCTACCGAGCGGCTGTACATCGGGGCC 120
DB 1341 GGGCCCCGAGGCAAGCCAGAGCCATTAAGTCTGCTACAGAGCGGCTTATATCGGGGTCC 1400
QY 121 YCTAACCAATTCAAAAGAGACAGAACTGCGGCTACCGTCCGTCCGCCAGCGGCTGCT 180
DB 1401 CCTGACTAATTCAAAAGGCGAGAACTGCGGCTACCGTCCGTCCGCCAGCGGCTGCT 1460
QY 181 GACTACCACTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCGCTGTGAGC 240
DB 1461 GACGACTACCTGCGTAATACCTCTCAATGTATCTTGAAGCGCTTGTGACGCTGTGAGC 1520
QY 241 TCGCAAGCTCCGGGACTGCAACCATGCTCGTGTGCGGGAGTGAACCTTGTCTATCTGTGA 300
DB 1521 TCGCAAGCTCCGAGACTGCAACCATGCTCGTGTGCGGGAGCGGCTTGTCTATCTGTGA 1580
QY 301 GAGTCCGGAGTTCGAGGAAGACGCGGCGAACCCTACGAG 338
DB 1581 GAGCGCGGAGACCCAGAGAGACGCGGCGAGCCTACGAG 1618

RESULT 13
US-08-191-160-22
Sequence 22, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rogers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Pigs, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Pigg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 3750 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: cDNA clones from 3' end of the genome
FEATURE: from 1 to 3750 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22

Query Match 78.6%; Score 267.2; DB 3; Length 3750;
Best Local Similarity 86.7%; Pred. No. 1.6e-72;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGATGACATCCGTGTCGAGGAATCAATATCCATGTTGACTT 60
DB 3261 CTCACAGTCACTGAGATGACATCCGTGTCGAGGAATCAATATGTTGACTT 3320
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCTGCTACCGAGCGGCTGTACATCGGGGCC 120
DB 3321 GGGCCCCGAGGCAAGCCAGAGCCATTAAGTCTGCTACAGAGCGGCTTATATCGGGGTCC 3380
QY 121 YCTAACCAATTCAAAAGAGACAGAACTGCGGCTACCGTCCGTGTGCGGGAGCGGCTGCT 180
DB 3381 CCTGACTAATTCAAAAGGCGAGAACTGCGGCTATGCGGCTGTGCGGAGCGGCTGCT 3440
QY 181 GACTACCACTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCGCTGTGAGC 240
DB 3441 GACGACTACCTGCGTAATACCTCTCAATGTATCTTGAAGCGCTTGTGACGCTGTGAGC 3500
QY 241 TCGCAAGCTCCGGGACTGCAACCATGCTCGTGTGCGGGAGTGAACCTTGTCTATCTGTGA 300
DB 3501 TCGCAAGCTCCGAGACTGCAACCATGCTCGTGTGCGGGAGCGGCTTGTCTATCTGTGA 3560
QY 301 GAGTCCGGAGTTCGAGGAAGACGCGGCGAACCCTACGAG 338
DB 3561 GAGCGCGGAGACCCAGAGAGACGCGGCGAGCCTACGAG 3598

RESULT 14
US-08-441-971-8
Sequence 8, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
CLASSIFICATION: 435
FILING DATE: 16-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-971-8

Query Match 78.1%; Score 265.6; DB 3; Length 340;
Best Local Similarity 86.4%; Pred. No. 2e-72;
Matches 292; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 1 CTCGACGTTACTGGAATGACATCCGTGTCAGAGGAATCAATATTCATGTTGACTT 60
DB 1 CTCAGCGGTCACTGAGAAATGACATCCGTGTTGAGAGTCAATTTACCAAAATTGTGACTT 60

QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTGCCTCACCGAGCGGCTGTACATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTGCCTCACAGAGCGGCTTTATCATCGGGGGCCC 120

QY 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGTGCCTGCGCGCCAGCGCGTGT 180
DB 121 CCTGACTAATTCAAAAGGCGAGAACTGCGGCTATCGCCGATGCGCGCCAGCGGCTGT 180

QY 181 GACTACCGAGCTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCGCTGCGAGC 240
DB 181 GACGACTACTGCGGTAATACCTTCACATGTTACTTGAAGGCCACTGCGGCTGTAGAGC 240

QY 241 TGCAGAGCTCCGAGGACTGCAACCATGCTGCTGTCGCGGAGTGAACCTTGTCTATCTGTA 300
DB 241 TCGGAGCTCCAGAGACTGCAAGATGCTGCTGTGCGGAGACGACCTTGTCTATCTGTA 300

QY 301 GAGTGGGAGTTCAGAGAAAGACGGCGGCAACTTACGAG 338
DB 301 AAGCGCGGGAACCCAGAGAGATGCGGCGAGCTTACGAG 338

RESULT 15
US-08-441-971-9
Sequence 9, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1.1
US-08-441-971-9

Query Match 78.1%; Score 265.6; DB 3; Length 340;
Best Local Similarity 86.4%; Pred. No. 2e-72;
Matches 292; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 1 CTCGACATTTACTGGAATGACATCCGTGTCAGAGGAATCAATATTCATGTTGACTT 60
DB 1 CTCAGCGGTCACTGAGAAATGACATCCGTGTTGAGAGTCAATTTACCAAAATTGTGACTT 60

QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTGCCTCACCGAGCGGCTGTACATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTGCCTCACAGAGCGGCTTTATCATCGGGGGCCC 120

QY 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGTGCCTGCGCGCCAGCGCGTGT 180
DB 121 CCTGACTAATTCAAAAGGCGAGAACTGCGGCTATCGCCGATGCGCGCCAGCGGCTGT 180

QY 181 GACTACCGAGCTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCGCTGCGAGC 240
DB 181 GACGACTACTGCGGTAATACCTTCACATGTTACTTGAAGGCCACTTGTGAGCGCTGTAGAGC 240

QY 241 TGCAGAGCTCCGAGGACTGCAACCATGCTGCTGTCGCGGAGTGAACCTTGTCTATCTGTA 300
DB 241 CGGAGAGCTCCAGAGACTGCAAGATGCTGCTGTGCGGAGACGACCTTGTCTATCTGTA 300

QY 301 GAGTGGGAGTTCAGAGAAAGACGGCGGCAACTTACGAG 338
DB 301 AAGCGCGGGAACCCAGAGAGATGCGGCGAGCTTACGAG 338

Search completed: January 11, 2006, 10:56:27
Job time : 83.331 secs

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ANTI-SENSE: NO
US-08-836-075A-55

Query Match 99.8%; Score 339.2; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 7e-92;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTCAGTGAAGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
    |||
DB 1 CTCGACAGTTCAGTGAAGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
QY 61 GGGCCCTYAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGCTGTACGTGGGGGCC 120
    |||
DB 61 GGGCCCTYAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGCTGTACGTGGGGGCC 120
QY 121 CCTAACCAATTCAAAGGGGCAAGACTGCGGCTATGTCGTGCGGCTAGCGGCTGCT 180
    |||
DB 121 CCTAACCAATTCAAAGGGGCAAGACTGCGGCTATGTCGTGCGGCTAGCGGCTGCT 180
QY 181 GACCAACGAGCTGGGCAACACCTCTCATGCTAATTGAAGCCAGGGGGCGCTGTGAGC 240
    |||
DB 181 GACCAACGAGCTGGGCAACACCTCTCATGCTAATTGAAGCCAGGGGGCGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGACTGCACATGCTCTGTGCGGAGAGACCTTGTCTATCTGTGA 300
    |||
DB 241 TGCAGAGCTCCAGAGACTGCACATGCTCTGTGCGGAGAGACCTTGTCTATCTGTGA 300
QY 301 GAGCGGGGAGTTCGAGAGAGAGCGCGGCGCAACTTACGAGTC 340
    |||
DB 301 GAGCGGGGAGTTCGAGAGAGAGCGCGGCGCAACTTACGAGTC 340
```

RESULT 2

US-08-836-075A-57
Sequence 57, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-57

Query Match 89.3%; Score 303.6; DB 3; Length 340;
Best Local Similarity 92.6%; Pred. No. 3.2e-81;
Matches 315; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTCAGTGAAGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
    |||
DB 1 CTCGACAGTTCAGTGAAGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
QY 61 GGGCCCTYAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGCTGTACGTGGGGGCC 120
    |||
DB 61 GGGCCCTYAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGCTGTATATCGGGGCTCC 120
QY 121 CCTAACCAATTCAAAGGGGCAAGACTGCGGCTATGTCGTGTCGCTTACCGGCTGCT 180
    |||
DB 121 CCTAACCAATTCAAAGGGGCAAGACTGCGGCTATGTCGTGTCGCTTACCGGCTGCT 180
QY 181 GACCAACGAGCTGGGCAACACCTCTCATGCTAATTGAAGCCAGGGGGCGCTGTGAGC 240
    |||
DB 181 GACCAACGAGCTGGGCAACACCTCTCATGCTAATTGAAGCCAGGGGGCGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGACTGCACATGCTCTGTGCGGAGAGACCTTGTCTATCTGTGA 300
    |||
DB 241 TGCAGAGCTCCAGAGACTGCACATGCTCTGTGCGGAGAGACCTTGTCTATCTGTGA 300
QY 301 GAGCGGGGAGTTCGAGAGAGAGCGCGGCGCAACTTACGAGTC 340
    |||
DB 301 GAGTCRGGAGTTCGAGAGAGAGCGCGGCGCAACTTACGAGTC 340
```

RESULT 3

US-08-836-075A-53
Sequence 53, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-53

Query Match 89.2%; Score 303.2; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 4,2e-81;
Matches 314; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

QY 1 CTGACAGTTACTGAGAAAGACATCCGTACCGAGGATCATCTATCAATGTTGACTT 60
DB 1 CTGACAGTTACTGAGAAAGACATCCGTACCGAGGATCATCTATCAATGTTGACTT 60
QY 61 GGCCCCYAGAGGCCCGCAAGCCATTAAGTCTCAACCGAGCGGCTGTAGTGGGGCCC 120
DB 61 GGCCCCCGAGGCTCCCAAGGCCATTAAGTCTCAACCGAGCGGCTGTAGTGGGGCCC 120
QY 121 CCTAACCAATTCAAAAGGGCCAGAACTGGGGCTATCTGTGCTGCGGTAGGGGCTCT 180
DB 121 YCTAACCAATTCAAAAGGACAAACTGCGGCTACCGTGGTCCCGCCAGCGGGGCTCT 180
QY 181 GACCAACCACTGCGGCAACACCCCTCAACATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
DB 181 GACTACCACTGCGGCAACACCCCTCAACATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGACGAGTCTGCTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
DB 241 TGCAGAGCTCCGAGAGCTGACGAGTCTGCTGTGCGGAGATGACCTTGTCTTATCTGTGA 300
QY 301 GAGCGCGGAGTCCAGAGAGAGCGGCGGCAACCTACGAG 338
DB 301 GAGTGGGAGTCCAGAGAGAGCGGCGGCAACCTACGAG 338

RESULT 4

US-08-191-160-3
Sequence 3, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSER: Rothwell, Figs, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516

FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figs
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1770 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: clone J62 from cDNA library in lambda gt11
FEATURE:
LOCATION: from 1 to 1770 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: probably encodes viral non-structural
OTHER INFORMATION: proteins
US-08-191-160-3

Query Match 81.4%; Score 276.8; DB 3; Length 1770;
Best Local Similarity 87.9%; Pred. No. 5.7e-73;
Matches 299; Conservative 2; Mismatches 39; Indels 0; Gaps 0;

QY 1 CTGACAGTTACTGAGAAAGACATCCGTACCGAGGATCATCTATCAATGTTGACTT 60
DB 1 CTGACAGTTACTGAGAAAGACATCCGTACCGAGGATCATCTATCAATGTTGACTT 60
QY 61 GGCCCCYAGAGGCCCGCAAGCCATTAAGTCTCAACCGAGCGGCTGTAGTGGGGCCC 120
DB 61 GGCCCCCGAGGCTCCCAAGGCCATTAAGTCTCAACCGAGCGGCTGTAGTGGGGCCC 120
QY 121 CCTAACCAATTCAAAAGGGCCAGAACTGGGGCTATCTGTGCTGCGGTAGGGGCTCT 180
DB 121 YCTAACCAATTCAAAAGGACAAACTGCGGCTACCGTGGTCCCGCCAGCGGGGCTCT 180
QY 181 GACCAACCACTGCGGCAACACCCCTCAACATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
DB 181 GACTACCACTGCGGCAACACCCCTCAACATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGACGAGTCTGCTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
DB 241 TGCAGAGCTCCAGAGCTGACGAGTCTGCTGTGCGGAGATGACCTTGTCTTATCTGTGA 300
QY 301 GAGCGCGGAGTCCAGAGAGAGCGGCGGCAACCTACGAGTC 340
DB 301 GAGCGCGGAGTCCAGAGAGAGCGGCGGCAACCTACGAGTC 340

RESULT 5

US-08-191-160-22
Sequence 22, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent

NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Figs, Ernst & Kurtz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figs
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5740
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 3750 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: cDNA clones from 3' end of the genome
FEATURE:
LOCATION: from 1 to 3750 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22
Query Match 81.4%; Score 276.8; DB 3; Length 3750;
Best Local Similarity 87.9%; Pred. No. 7.3e-73;
Matches 299; Conservative 2; Mismatches 39; Indels 0; Gaps 0;
QY 1 CTCGACAGTTACTGAGAACGACATCCGTACCGGAGATCAATCAATGTTGACCT 60
DB 3261 CTCGACAGTTACTGAGAACGACATCCGTACCGGAGATCAATCAATGTTGACCT 3320
QY 61 GGGCCCYGAGGCGCCGAGGCGCTAAAGTGCCTACGAGCGGCTGTACGTCGGGGGCC 120
DB 3321 GGGCCCGAGGCGGAGGCGCTAAAGTGCCTACGAGCGGCTGTACGTCGGGGGCC 3380
QY 121 CCTAACCAATTCAAGGGGAGAACTGCGGCTATCGTGGTGTGCGGCTAGCGGCGTGTCT 180
DB 3381 CCGTCAATTAATCAAAAGGGGAGAACTGCGGCTATCGGCGGCTGTGCGGCGGCTGTCT 3440
QY 181 GACACACAGTGTGGGCAACACCTCTACATCTACTTGAAGCCAGGGGCGGCTGTGAGC 240
DB 3441 GAGCACTAAGTGTGGGCAACACCTCTACATCTACTTGAAGCCAGGGGCGGCTGTGAGC 3500
QY 241 TCGAAGCTCCAGGACTGCACGATGCTGCTGTCGAGAGACGACTTGTGCTATCTGTGA 300

DB 3501 TCGAAGCTCCAGGACTGCACGATGCTGTGCGGAGACGCGCTTGTGCTATCTGTGA 3560
QY 301 GAGCGCGGAGTCCAGAGAGACGCGGCGCAACTCTAGATC 340
DB 3561 GAGCGCGGAGTCCAGAGAGACGCGGCGCAACTCTAGATC 3600
RESULT 6
US-08-441-971-11
Sequence 11, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5a p1
US-08-441-971-11
Query Match 80.9%; Score 275.2; DB 3; Length 340;
Best Local Similarity 87.6%; Pred. No. 1e-72;
Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;
QY 1 CTCGACAGTTACTGAGAACGACATCCGTACCGGAGATCAATCAATGTTGACCT 60
DB 1 CTCGACAGTTACTGAGAACGACATCCGTACCGGAGATCAATCAATGTTGACCT 60
QY 61 GGGCCCYGAGGCGCCGAGGCGCTAAAGTGCCTACGAGCGGCTGTACGTCGGGGGCC 120
DB 61 GGGCCCGAGGCGGAGGCGCTAAAGTGCCTACGAGCGGCTGTACGTCGGGGGCC 120
QY 121 CCTAACCAATTCAAGGGGAGAACTGCGGCTATCGTGGTGTGCGGCTAGCGGCGTGTCT 180

Db 121 CCTGACTAATTCAGAAAGGCGAGACTGCGGCTATCGCCGCTGCGCGAGCGAGCTGCT 180
Qy 181 GACGACGAGCTGCGGCGAAGACCTCTCATGCTACTTTGAAAGCGAGGCGGCTGTGAGC 240
Db 181 GACGACTACTGCTGCTGTAACACCTTCACATGTTACTTTGAAAGGCTCTGCGGCTGTGAGC 240
Qy 241 TGCAGAGCTCCAGAGCTGACGATGCTGCTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Db 241 TGCAGAGCTCCAGAGCTGACGATGCTGCTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Qy 301 GAGCGCGGAGCTCCAGAGAGAGCGCGGCGAAGCTTACGAGTC 340
Db 301 GAGCGCGGAGCTCCAGAGAGAGCGCGGCGAAGCTTACGAGTC 340

RESULT 7
US-08-221-653-11
; Sequence 11, Application US/08221653
; Patent No. 6190864

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5spl
US-08-221-653-11

Query Match 80.9%; Score 275.2; DB 3; Length 340;
Best Local Similarity 87.6%; Pred. No. 1e-72;
Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

Qy 1 CTCGACAGTACTGAGAGACATCCGTAACGAGATCAATCTATCAATGTTGACTT 60
Db 1 CTCGACAGTACTGAGAGATGACATCCGTTGAGAGTCAATTTACCAATGTTGACTT 60
Qy 61 GCGCCCGAGGCGCCGCAAGGCCATTAAGTCTGCTACGAGCGGCTGTACGTCGCGGCGCC 120

Db 61 GCGCCCGAGGCGCCGCAAGGCCATTAAGTCTGCTACGAGCGGCTGTACGTCGCGGCGCC 120
Qy 121 CCTAACCAATTCAGAAAGGCGGAGAACTGGGCTATGCTGTGTGCGCTTACGCGGTCT 180
Db 121 CCTGACTAATTCAGAAAGGCGGAGAACTGGGCTATGCTGTGTGCGGCTTACGCGGTCT 180
Qy 181 GACGACGAGCTGCGGCGAAGACCTCTCATGCTACTTTGAAAGCGAGGCGGCTGTGAGC 240
Db 181 GACGACTACTGCTGCTGTAACACCTTCACATGTTACTTTGAAAGGCTCTGCGGCTGTGAGC 240
Qy 241 TGCAGAGCTCCAGAGCTGACGATGCTGCTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Db 241 TGCAGAGCTCCAGAGCTGACGATGCTGCTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Qy 301 GAGCGCGGAGCTCCAGAGAGAGCGCGGCGAAGCTTACGAGTC 340
Db 301 GAGCGCGGAGCTCCAGAGAGAGCGCGGCGAAGCTTACGAGTC 340

RESULT 8
US-08-442-144A-11
; Sequence 11, Application US/08442144A
; Patent No. 6214583

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Bruce Irvine
APPLICANT: Michael S. Urdia
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5spl
US-08-442-144A-11

Query Match 80.9%; Score 275.2; DB 3; Length 340;
Best Local Similarity 87.6%; Pred. No. 1e-72;

Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTCTAGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTTGACTT 60
DB 1 CTCGACAGTCTAGAGAACGACATCCGTATGAGAGTCAATTTACCAATGTTTGACTT 60
QY 61 GGGCCCTGAGGAGCCCGCAAGGCGCATAAAGTCGCTACCGAGGAGGCTGTAAGTGGGGGCC 120
DB 61 GGGCCCTGAGGAGCCCGCAAGGCGCATTAAGTTCGCTACAGAGGCGGCTGTACATGGGGGTC 120
QY 121 CCTAACCAATTCAAAGGGGCAAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCTGCT 180
DB 121 CCTGACTAATTCAAAGGGGCAAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCTGCT 180
QY 181 GACCAACGAGCTGCGGCAACCCCTGCAATGCTACTTGAAGGCAAGGGGCGGCTGTCAGC 240
DB 181 GACGACTAGCTGCGGCAACCCCTGCAATGCTACTTGAAGGCTGTCAGGCTGTCAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGCTGTCGAGAGAGCACTTGTGTTATCTGTGA 300
DB 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGCTGTCGAGAGAGCACTTGTGTTATCTGTGA 300
QY 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
DB 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
```

RESULT 9

US-08-441-970-11

Sequence 11, Application US/08441970

Patent No. 6297370

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970

FILING DATE: 16-MAY-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5ep1

US-08-441-970-11

Query Match 80.9%; Score 275.2; DB 3; Length 340;

Best Local Similarity 87.6%; Pred. No. 1e-72;

Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTCTAGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTTGACTT 60
DB 1 CTCGACAGTCTAGAGAACGACATCCGTATGAGAGTCAATTTACCAATGTTTGACTT 60
QY 61 GGGCCCTGAGGAGCCCGCAAGGCGCATAAAGTCGCTACCGAGGAGGCTGTAAGTGGGGGCC 120
DB 61 GGGCCCTGAGGAGCCCGCAAGGCGCATTAAGTTCGCTACAGAGGCGGCTGTACATGGGGGTC 120
QY 121 CCTAACCAATTCAAAGGGGCAAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCTGCT 180
DB 121 CCTGACTAATTCAAAGGGGCAAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCTGCT 180
QY 181 GACCAACGAGCTGCGGCAACCCCTGCAATGCTACTTGAAGGCAAGGGGCGGCTGTCAGC 240
DB 181 GACGACTAGCTGCGGCAACCCCTGCAATGCTACTTGAAGGCTGTCAGGCTGTCAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGCTGTCGAGAGAGCACTTGTGTTATCTGTGA 300
DB 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGCTGTCGAGAGAGCACTTGTGTTATCTGTGA 300
QY 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
DB 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
```

RESULT 10

US-09-827-688-6

Sequence 6, Application US/09827688

Patent No. 6821955

GENERAL INFORMATION:

APPLICANT: KINSEY, FRANK

APPLICANT: KINSEY, BERMA

APPLICANT: BHOGAL, BALBIR

TITLE OF INVENTION: MACROPHAGE-INDUCED PROTEIN CONJUGATES AS ORAL GENETIC IMMUNIZATION D

TITLE OF INVENTION: AGENTS

FILE REFERENCE: P01949US1/10004014

CURRENT APPLICATION NUMBER: US/09/827,688

CURRENT FILING DATE: 2001-04-06

PRIOR APPLICATION NUMBER: 60/195,680

PRIOR FILING DATE: 2000-04-07

SOFTWARE: PatentIn version 3.0

NUMBER OF SEQ ID NOS: 13

SEQ ID NO 6

LENGTH: 9413

TYPE: DNA

ORGANISM: HEPATITIS C

US-09-827-688-6

Query Match 80.9%; Score 275.2; DB 3; Length 9413;

Best Local Similarity 87.6%; Pred. No. 3e-72;

Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTCTAGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTTGACTT 60
DB 8261 CTCGACAGTCTAGAGAACGACATCCGTATGAGAGTCAATTTACCAATGTTTGACTT 8320
QY 61 GGGCCCTGAGGAGCCCGCAAGGCGCATAAAGTCGCTACCGAGGAGGCTGTAAGTGGGGGCC 120
DB 8321 GGGCCCTGAGGAGCCCGCAAGGCGCATTAAGTTCGCTACAGAGGCGGCTGTATGTCGGGGGTC 8380
QY 121 CCTAACCAATTCAAAGGGGCAAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCTGCT 180
DB 8381 CCTGACTAATTCAAAGGGGCAAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCTGCT 8440
QY 181 GACCAACGAGCTGCGGCAACCCCTGCAATGCTACTTGAAGGCAAGGGGCGGCTGTCAGC 240
```

Db 8441 GACGACTAGCTGCGGCAACCCCTCATGTTACTTGAAGCCACTGCGGCTGTGAGC 8500
Qy 241 TCCAAAGCTCCAGAGACTGTCAGTGTGTGCGGAGAGCACTTGTGTTATCTGCA 300.
Db 8501 TCCAAAGCTCCAGAGACTGTCAGTGTGTGCGGAGAGCACTTGTGTTATCTGCA 8560
Qy 301 GAGCGCGGAGTTCAGAGAGAGAGCGGAGCACTTGTGTTATCTGCA 340
Db 8561 GAGTGGGGAGACCCAGAGAGATGCGGCGGCTTACAGACC 8600

RESULT 11

US-08-441-971-12
Sequence 12, Application US/08441971
Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-May-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE: US/07/881,528

FILING DATE: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5p3

US-08-441-971-12

Query Match 80.0%; Score 272; DB 3; Length 340;

Best Local Similarity 87.1%; Pred. No. 9e-72;

Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

Qy 1 CTCGACAGTTACTAGAGACATCCGATCCGAGGATCAATCTATGATGACTT 60
Db 1 CTCACAGCTCATCTGAGAGCAATCCGTTGAGAGTCAATCTACCAATGTTGACTT 60
Qy 61 GGCCTCCGAGGCGCCGCAAGCCATTAAGTCTCACCGAGCGGCTGTACGTCGGGGGCC 120
Db 61 GGCCTCCGAGGCGCCGCAAGCCATTAAGTCTCACCGAGCGGCTTTACATCGGGGGTCC 120

Qy 121 CTTACCAATTCAAGGGGAGAACTGGGCTATGTCGTGCGGCTAGCGGCT 180
Db 121 CTTACCAATTCAAGGGGAGAACTGGGCTATGTCGTGCGGCTAGCGGCT 180
Qy 181 GACCAAGCTCCAGAGACTGTCAGTGTGTGCGGAGAGCACTTGTGTTATCTGCA 240
Db 181 GACCAAGCTCCAGAGACTGTCAGTGTGTGCGGAGAGCACTTGTGTTATCTGCA 240
Qy 241 TCCAAAGCTCCAGAGACTGTCAGTGTGTGCGGAGAGCACTTGTGTTATCTGCA 300
Db 241 TCCAAAGCTCCAGAGACTGTCAGTGTGTGCGGAGAGCACTTGTGTTATCTGCA 300
Qy 301 GAGCGCGGAGTTCAGAGAGAGAGCGGAGCACTTGTGTTATCTGCA 340
Db 301 GAGCGCGGAGTTCAGAGAGAGAGCGGAGCACTTGTGTTATCTGCA 340

RESULT 12

US-08-221-653-12
Sequence 12, Application US/08221653
Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528

FILING DATE: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5p3

US-08-221-653-12

Query Match 80.0%; Score 272; DB 3; Length 340;

Best Local Similarity 87.1%; Pred. No. 9e-72;

Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

Qy 1 CTCGACAGTTACTAGAGACATCCGATCCGAGGATCAATCTATGATGACTT 60
Db 1 CTCACAGCTCATCTGAGAGCAATCCGTTGAGAGTCAATCTACCAATGTTGACTT 60

```

Db      1  CTCAACAGTCACTGAGAGTGAACATCCGTTGTGAGAGTCAATCTTATGACTT  60
Qy      61  GGGCCCCGAGGGCCCGAAGCCATTAAGTCCTCAACCGCGGCTGTAGTGGGGGCC  120
Db      61  GGGCCCCGAGGCCGATTAAGTCCTCAACGAGCGGCTTTATCATGGGGGTC  120
Qy      121  CCTAACCAATTCAGAGGGGCAGAACTGCGGCTATCGTGGTGTGCGGCTAGCGGCTG  180
Db      121  CCTGACTAATTCAGAAAGGGCAGAACTGCGGCTATCGCGGCTATCGCGGCAAGCGGCTG  180
Qy      181  GACCAACGACTGCGGCAACACCTCTCACTGCTATTGAAAGCGAGGGCGGCTGTGAGC  240
Db      181  GACGACTAGTGGGTAATACCTCTCATGTTACTGAAGGCCAGAGTGCGGCTGTGAGC  240
Qy      241  TGCAGAGCTCCAGAGCTGACATGCTGCTGTGCGGAGCGAAGCTTGTGTTATCTGTGA  300
Db      241  TGCAGAGCTCCAGAGCTGACATGCTGCTGTGCGGAGCGAAGCTTGTGTTATCTGTGA  300
Qy      301  GAGCGCGGAGTCCAGAGAGGAGCGCGGCGAAGCTTACGAGTC  340
Db      301  GAGCGCGGAGCGAAGAGAGCGCGGCGAAGCTTACGAGTC  340

```

RESULT 13

US-08-442-144A-12
Sequence 12, Application US/08442144A

Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

APPLICANT: Eileen Beall

APPLICANT: Bruce Irvine

APPLICANT: Janice Kolberg

APPLICANT: Michael S. Urdea

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 148

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Chiron Corporation

STREET: 4560 Horton Street

CITY: Emeryville

STATE: California

COUNTRY: USA

ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows NT

SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/442,144A

FILING DATE: MAY 16, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653

FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Doreen Yanko Trujillo

REGISTRATION NUMBER: 35,719

REFERENCE/DOCKET NUMBER: CHIR-0121

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-568-3100

TELEFAX: 215-568-3439

TELEX:

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 Nucleotides

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE: n55p3

INDIVIDUAL ISOLATE: US-08-442-144A-12

Query Match 80.0%; Score 272; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 9e-72;
Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

```

Qy      1  CTGCACTTACTGAGAAAGCAATCCGTAACGAGGATCAATCTATCAATGTTGACTT  60
Db      1  CTCAACAGTCACTGAGAGTGAACATCCGTTGTGAGAGTCAATCTTATGACTT  60
Qy      61  GGGCCCCGAGGCCCGAAGCCATTAAGTCCTCAACCGCGGCTGTAGTGGGGGCC  120
Db      61  GGGCCCCGAGGCCGATTAAGTCCTCAACGAGCGGCTTTATCATGGGGGTC  120
Qy      121  CCTAACCAATTCAGAGGGGCAGAACTGCGGCTATCGTGGTGTGCGGCTAGCGGCTG  180
Db      121  CCTGACTAATTCAGAAAGGGCAGAACTGCGGCTATCGCGGCTATCGCGGCAAGCGGCTG  180
Qy      181  GACCAACGACTGCGGCAACACCTCTCACTGCTATTGAAAGCGAGGGCGGCTGTGAGC  240
Db      181  GACGACTAGTGGGTAATACCTCTCATGTTACTGAAGGCCAGAGTGCGGCTGTGAGC  240
Qy      241  TGCAGAGCTCCAGAGCTGACATGCTGCTGTGCGGAGCGAAGCTTGTGTTATCTGTGA  300
Db      241  TGCAGAGCTCCAGAGCTGACATGCTGCTGTGCGGAGCGAAGCTTGTGTTATCTGTGA  300
Qy      301  GAGCGCGGAGTCCAGAGAGGAGCGCGGCGAAGCTTACGAGTC  340
Db      301  GAGCGCGGAGCGAAGAGAGCGCGGCGAAGCTTACGAGTC  340

```

RESULT 14

US-08-441-970-12
Sequence 12, Application US/08441970

Patent No. 6297370

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970

FILING DATE: 16-MAY-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992

APPLICATION NUMBER: 07/697,326

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5bp3
US-08-441-970-12

Query Match 80.0%; Score 272; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 9e-72;
Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
DB 1 CTCACAGCTCACTGAGAGATCATCCGTGTTGAGAGATCAATCTATCAATGTTGACTT 60
QY 61 GGGCCCTGAGGCGCCGCAAGGCGCATTAAGTCGCTCAACGCGGCTGTAGTGGGGGCC 120
DB 61 GGGCCCGGAGGCGAGACAGGCTATAGGTGCTCAAGGCGGCTTTACATCGGGGGTCC 120
QY 121 CTTAACCAATTCAAAAGGGGAGAACTGCGGCTATGCTGCTGCTGCTAGCGGCTGCT 180
DB 121 CTTGACTATTTCAAAAGGGGAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCT 180
QY 181 GACCACTAGCTGCGGCAACCTCTCATGCTTCTTGAAGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTGCGGTAATACCTCATGTTACTGAAGGCGAGTGGCGCTGTGAGC 240
QY 241 TGCAAGCTCCAGAGCTGAGATGCTGTGCGGAGACCACTTGTCTTATCTGGA 300
DB 241 TGCGAAGCTCCAGAGCTGAGATGCTGTGCGGAGACCACTTGTCTTATCTGGA 300
QY 301 GAGCGGGGAGTCCAGAGAGAGCGGCGAACCCTACGAGTC 340
DB 301 GAGCGGGGAGCCCAAGAGAGAGCGGCGAACCCTACGAGTC 340

RESULT 15
US-08-441-971-8

Sequence 8, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSER: Wolf, Greenfield & Sacks, P.C.

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE: US/07/881,528

FILING DATE: 07/697,326

ATTORNEY/AGENT INFORMATION:

NAME: Janiak, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-971-8

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 86.8%; Pred. No. 2.7e-71;
Matches 295; Conservative 2; Mismatches 43; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
DB 1 CTCACAGCTCACTGAGAGATCATCCGTGTTGAGAGATCAATCTATCAATGTTGACTT 60
QY 61 GGGCCCTGAGGCGCCGCAAGGCGCATTAAGTCGCTCAACGCGGCTGTAGTGGGGGCC 120
DB 61 GGGCCCGGAGGCGAGACAGGCTATAGGTGCTCAAGGCGGCTTTACATCGGGGGTCC 120
QY 121 CTTAACCAATTCAAAAGGGGAGAACTGCGGCTATGCTGCTGCTGCTAGCGGCTGCT 180
DB 121 CTTGACTATTTCAAAAGGGGAGAACTGCGGCTATGCTGCTGCTGCTGCTGCTGCT 180
QY 181 GACCACTAGCTGCGGCAACCTCTCATGCTTCTTGAAGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTGCGGTAATACCTCATGTTACTGAAGGCGAGTGGCGCTGTGAGC 240
QY 241 TGCAAGCTCCAGAGCTGAGATGCTGTGCGGAGACCACTTGTCTTATCTGGA 300
DB 241 TGCGAAGCTCCAGAGCTGAGATGCTGTGCGGAGACCACTTGTCTTATCTGGA 300
QY 301 GAGCGGGGAGTCCAGAGAGAGCGGCGAACCCTACGAGTC 340
DB 301 AAGCGGGGAGCCCAAGAGAGAGCGGCGAACCCTACGAGTC 340

Search completed: January 11, 2006, 10:56:28
Job time : 83.331 secs

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ANTI-SENSE: NO
US-08-836-075A-57

Query Match 99.9%; Score 339.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 7.7e-93;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTACTGAGAACGACATTCGTGTCGAGAAATCAATCTACAGTCTGTGACTT 60
   |||||
DB 1 CTCGACAGTTACTGAGAACGACATTCGTGTCGAGAAATCAATCTACAGTCTGTGACTT 60
QY 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGCTGTATATCGGGGGTCC 120
   |||||
DB 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGCTGTATATCGGGGGTCC 120
QY 121 CCTAACCACTCAAAAAGGGCAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCGTCT 180
   |||||
DB 121 CCTAACCACTCAAAAAGGGCAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCGTCT 180
QY 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTGAAGCCAGGGCGGCTGTATCGAGC 240
   |||||
DB 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTGAAGCCAGGGCGGCTGTATCGAGC 240
QY 241 TCGCAAGCTCCAGACCTGCAACATGCTCGTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
   |||||
DB 241 TCGCAAGCTCCAGACCTGCAACATGCTCGTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
QY 301 GAGTCGCGAGTCCAGAGAGAGATGCGGCCAAGCTTACGAGTTC 340
   |||||
DB 301 GAGTCGCGAGTCCAGAGAGAGATGCGGCCAAGCTTACGAGTTC 340
```

RESULT 2

US-08-836-075A-55
Sequence 55, Application US/08836075A
Patent No. 6180768

```
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
```

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-55

Query Match 89.3%; Score 303.6; DB 3; Length 340;
Best Local Similarity 92.6%; Pred. No. 5.6e-82;
Matches 315; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTACTGAGAACGACATTCGTGTCGAGAAATCAATCTACAGTCTGTGACTT 60
   |||||
DB 1 CTCGACAGTTACTGAGAACGACATTCGTGTCGAGAAATCAATCTACAGTCTGTGACTT 60
QY 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGGCTGTATATCGGGGGTCC 120
   |||||
DB 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGGCTGTATATCGGGGGTCC 120
QY 121 CCTAACCACTCAAAAAGGGCAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCGTCT 180
   |||||
DB 121 CCTAACCACTCAAAAAGGGCAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCGTCT 180
QY 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTGAAGCCAGGGCGGCTGTATCGAGC 240
   |||||
DB 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTGAAGCCAGGGCGGCTGTATCGAGC 240
QY 241 TCGCAAGCTCCAGACCTGCAACATGCTCGTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
   |||||
DB 241 TCGCAAGCTCCAGACCTGCAACATGCTCGTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
QY 301 GAGTCGCGAGTCCAGAGAGAGATGCGGCCAAGCTTACGAGTTC 340
   |||||
DB 301 GAGTCGCGAGTCCAGAGAGAGATGCGGCCAAGCTTACGAGTTC 340
```

RESULT 3

US-08-836-075A-53
Sequence 53, Application US/08836075A
Patent No. 6180768

```
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
```


ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-53

Query Match 88.8%; Score 302; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 1.7e-81;
Matches 314; Conservative 2; Mismatches 22; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTACTGAGAACGACATCGTGTGAGGAAATCAATCTACAGTGTGACTT 60
DB 1 CTCGACAGTTACTGAGAAATGACATCCGTGTGAGGAAATCAATCAATGTTGTGACTT 60
QY 61 GGCCCCCGAGGCGCCGCAAGGCCATTAAGTGTGCTCAAGCGGCTGTATATCGGGGCTCC 120
DB 61 GGCCCCCGAGGCTGCGCAAGGCCATTAAGTGTGCTCAAGCGGCTGTATATCGGGGCTCC 120
QY 121 CCTAACCACTCTAAAGGCGCAAGTGTGCGGCTACCTGTGCTGCGGCGGCGGCTGCT 180
DB 121 YCTAACCAATTCMAAAGGACGAACTGTGCGGCTACCTGTGCTGCGGCGGCGGCTGCT 180
QY 181 GACTACGAGTGTGCGGTAATACCTCTCAATGTTACTTTAAAGCGAGGCGGCTGTGAGC 240
DB 181 GACTACGAGTGTGCGGTAATACCTCTCAATGTTACTTTAAAGCGAGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGTGTGCGGAGACGACTTGTGTTATCTGTGA 300
DB 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGTGTGCGGAGACGACTTGTGTTATCTGTGA 300
QY 301 GAGTGCRCGAGTCCAGAGGAGATGCGGCGCAACTTACGAG 338
DB 301 GAGTGCRCGAGTCCAGAGGAGATGCGGCGCAACTTACGAG 338
```

RESULT 4

US-08-441-971-12
Sequence 12, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528

FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-441-971-12

Query Match 82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTTACTGAGAACGACATCGTGTGAGGAAATCAATCTACAGTGTGACTT 60
DB 1 CTCGACAGTTACTGAGAAATGACATCCGTGTGAGGAAATCAATCAATGTTGTGACTT 60
QY 61 GGCCCCCGAGGCGCCGCAAGGCCATTAAGTGTGCTCAAGCGGCTGTATATCGGGGCTCC 120
DB 61 GGCCCCCGAGGCGCAAGGCTATTAAGTGTGCTCAAGCGGCTGTATATCGGGGCTCC 120
QY 121 CCTAACCACTCTAAAGGCGCAAGTGTGCGGCTACCTGTGCTGCGGCGGCGGCTGCT 180
DB 121 CCTACTTAATTCMAAAGGCGCAAGTGTGCGGCTACCTGTGCTGCGGCGGCGGCTGCT 180
QY 181 GACTACGAGTGTGCGGTAATACCTCTCAATGTTACTTTAAAGCGAGGCGGCTGTGAGC 240
DB 181 GACTACGAGTGTGCGGTAATACCTCTCAATGTTACTTTAAAGCGAGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGTGTGCGGAGACGACTTGTGTTATCTGTGA 300
DB 241 TGCAGAGCTCCAGAGCTGCAAGATGCTGTGTGCGGAGACGACTTGTGTTATCTGTGA 300
QY 301 GAGTGCRCGAGTCCAGAGGAGATGCGGCGCAACTTACGAGTC 340
DB 301 GAGTGCRCGAGTCCAGAGGAGATGCGGCGCAACTTACGAGTC 340
```

RESULT 5

US-08-221-653-12
Sequence 12, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-221-653-12

Query Match 82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGAACGACATTCGTCGAGGAATCAATCTACAGTGTGACTT 60
DB 1 CTCACAGTCTAGTAGAGACATCCGTTTGAGAGATCAATCTACATGTGTGACTT 60
QY 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTGCCTCACCGAGCGCTGTATATCGGGGTCC 120
DB 61 GGGCCCCGAGGCGCAAGAGGCTATTAAGTGCCTCACAGAGCGGCTTTACATCGGGGTCC 120
QY 121 CCTAACCACTCAAAAGGGCAGAACTGCGGCTACCGTGGTCCGCGCAGAGGGGCTCT 180
DB 121 CCTGACTAATTCAAAAGGGCAGAACTGCGGCTATGCGGTCGCGCAGAGGGGCTCT 180
QY 181 GACTACGAGTCTGGTAATACCTTCACATGTTACTTGAAGAGCAGGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTCGGTATATACCTTCACATGTTACTTGAAGAGCAGGTGGGCTGTGAGC 240
QY 241 TCGGAAGCTCCAGAGCTGCAATATGCTGTGCGAGAGCAGCTTGTCTTATCTGTGA 300
DB 241 TCGGAAGCTCCAGAGCTGCAATATGCTGTGCGAGAGCAGCTTGTCTTATCTGTGA 300
QY 301 GAGTGCAGAGTCCAGAGAGATGCGGCGCACTTACAGATC 340
DB 301 GAGCGCGGGGACCCCAAGAGAGCGGCGAGCCTTACAGATC 340

RESULT 6
US-08-442-144A-12
Sequence 12, Application US/08442144A

GENERAL INFORMATION:
PATENT No. 6214583
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville

STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: May 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: April 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-442-144A-12

Query Match 82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGAACGACATTCGTCGAGGAATCAATCTACAGTGTGACTT 60
DB 1 CTCACAGTCTAGTAGAGACATCCGTTTGAGAGATCAATCTACATGTGTGACTT 60
QY 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTGCCTCACCGAGCGCTGTATATCGGGGTCC 120
DB 61 GGGCCCCGAGGCGCAAGAGGCTATTAAGTGCCTCACAGAGGGGCTTTACATCGGGGTCC 120
QY 121 CCTAACCACTCAAAAGGGCAGAACTGCGGCTACCGTGGTCCGCGCAGAGGGGCTCT 180
DB 121 CCTGACTAATTCAAAAGGGCAGAACTGCGGCTATGCGGTCGCGCAGAGGGGCTCT 180
QY 181 GACTACGAGTCTGGTAATACCTTCACATGTTACTTGAAGAGCAGGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTCGGTATATACCTTCACATGTTACTTGAAGAGCAGGTGGGCTGTGAGC 240
QY 241 TCGGAAGCTCCAGAGCTGCAATATGCTGTGCGAGAGCAGCTTGTCTTATCTGTGA 300
DB 241 TCGGAAGCTCCAGAGCTGCAATATGCTGTGCGAGAGCAGCTTGTCTTATCTGTGA 300
QY 301 GAGTGCAGAGTCCAGAGAGATGCGGCGCACTTACAGATC 340
DB 301 GAGCGCGGGGACCCCAAGAGAGCGGCGAGCCTTACAGATC 340

RESULT 7

US-08-441-970-12
Sequence 12, Application US/08441970

GENERAL INFORMATION:
PATENT No. 6297370
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

```

ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881.528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sep3
US-08-441-970-12

Query Match      82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

Qy 1 CTCGACAGTCTAGTGAAGCATTCGTGCGAGATCAATCTACGATGCTGACTT 60
Db 1 CTCGACAGTCTAGTGAAGCATTCGTGCGAGATCAATCTACGATGCTGACTT 60
Qy 61 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
Db 61 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
Qy 121 CCTAACCACTCAAAAGGCGAGAACTGGCGGCTACCGTGGTGCCCGCCGAGCGGCTCT 180
Db 121 CCTAACCACTCAAAAGGCGAGAACTGGCGGCTACCGTGGTGCCCGCCGAGCGGCTCT 180
Qy 181 GACTACGAGCTGCGGGTAATACCTTCACATGTTACTTAAAGGCGAGGGGCGCTGCGAGC 240
Db 181 GACTACGAGCTGCGGGTAATACCTTCACATGTTACTTAAAGGCGAGGGGCGCTGCGAGC 240
Qy 241 TGGCAAGCTCCAGAGCTGCAAGATGCTGCTGCGAGAGCACTTGTGCTATCTGTGA 300
Db 241 TGGCAAGCTCCAGAGCTGCAAGATGCTGCTGCGAGAGCACTTGTGCTATCTGTGA 300
Qy 301 GAGTCRGGAGTCCAGAGAGATGCGGCGAAGCTTACGATC 340
Db 301 GAGTCRGGAGTCCAGAGAGATGCGGCGAAGCTTACGATC 340

```

```

APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbera, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Figg, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191.160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628.516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5740
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1770 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: clone JG2 from cDNA library in lambda gell1
FEATURE:
LOCATION: from 1 to 1770 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: probably encodes viral non-structural
OTHER INFORMATION: proteins
US-08-191-160-3

Query Match      81.5%; Score 277.2; DB 3; Length 1770;
Best Local Similarity 88.2%; Pred. No. 9.2e-74;
Matches 300; Conservative 1; Mismatches 39; Indels 0; Gaps 0;

Qy 1 CTCGACAGTCTAGTGAAGCATTCGTGCGAGATCAATCTACGATGCTGACTT 60
Db 1 CTCGACAGTCTAGTGAAGCATTCGTGCGAGATCAATCTACGATGCTGACTT 60
Qy 61 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
Db 61 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
Qy 121 CCTAACCACTCAAAAGGCGAGAACTGGCGGCTACCGTGGTGCCCGCCGAGCGGCTCT 180
Db 121 CCTAACCACTCAAAAGGCGAGAACTGGCGGCTACCGTGGTGCCCGCCGAGCGGCTCT 180
Qy 1401 CCTGACTAATTCAAAAGGCGAGAACTGCGGCTATCGCGGCTGCGCGAGCGGCGTCT 1460
Db 1401 CCTGACTAATTCAAAAGGCGAGAACTGCGGCTATCGCGGCTGCGCGAGCGGCGTCT 1460

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QY 181 GACTACGAGCTGCGGTAATACCTTCACATGTTACTTGAAGCCAGGCGCCTGTGAGC 240
DB 1461 GACGACTAGCTGCGGTAAATACCTTCACATGTTACTTGAAGGCTTGCAGAGCTGTGAGC 1520
QY 241 TCGGAGCTCCAGAGCTGCACAAATGCTGTGTGCGAGAGCAGACTTGTGTTATCTGTGA 300
DB 1521 TGCAGAGCTCCAGAGCTGCAGATGCTGTGTGCGAGAGCGGCTTGTGTTATCTGTGA 1580
QY 301 GAGTCRGAAGTCGAGAGAGATGCGGCGCAACTTACGAGTC 340
DB 1581 GAGCGCGGGAACCCAGAGAGAGCGGCGAGCTTACGAGTC 1620

RESULT 9
US-08-191-160-22
; Sequence 22, Application US/08191160
; Patent No. 6210675
; GENERAL INFORMATION:
; APPLICANT: Highfield, Peter Edmund
; APPLICANT: Rodgers, Brian Colin
; APPLICANT: Tedder, Richard Seton
; APPLICANT: Barbara, John Anthony James
; TITLE OF INVENTION: Viral Agent
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Earnst & Kurz
; STREET: 1700 K Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5740
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 3750 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORGANISM SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: cDNA clones from 3' end of the genome
FEATURE:
LOCATION: from 1 to 3750 bp portion of the PT-NANBH
LOCATION: polyprotein

OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22
Query Match 81.5%; Score 277.2; DB 3; Length 3750;
Best Local Similarity 88.2%; Pred. No. 1.2e-73;
Matches 300; Conservative 1; Mismatches 39; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTAGAGACGATTCGTGTGAGAGATCATATCAACAGTGTGTGACTT 60
DB 3261 CTCGACAGTCACTAGAGATGATCCCTGTAGAGATCATATTAATGTTGTGACTT 3320
QY 61 GGGCCCGAGGCGCGCAAGCCATTAAGTCTTCACCGAGCGGCTGTATATCGGGGCTCC 120
DB 3321 GGGCCCGAGGCGCGCAAGCCATTAAGTCTTCACAGAGCGGCTTATATCGGGGCTCC 3380
QY 121 CCTAACCACTCAAAAGGCGAGAACTGCGGCTACCGTGGTGGCGGCGGCGGCT 180
DB 3381 CCTGACTTAATTCAAAAGGCGAGAACTGCGGCTATGCGGCTGCGGCGGCGGCGGCT 3440
QY 181 GACTACGAGCTGCGGTAATACCTTCACATGTTACTTGAAGCCAGGCGGCTGTGAGC 240
DB 3441 GACGACTAGCTGCGGTAAATACCTTCACATGTTACTTGAAGGCTTGCAGAGCTGTGAGC 3500
QY 241 TCGGAGCTCCAGAGCTGCACAAATGCTGTGTGCGAGAGCAGACTTGTGTTATCTGTGA 300
DB 3501 TGCAGAGCTCCAGAGCTGCAGATGCTGTGTGCGAGAGCGGCTTGTGTTATCTGTGA 3560
QY 301 GAGTCRGAAGTCGAGAGAGATGCGGCGCAACTTACGAGTC 340
DB 3561 GAGCGCGGGAACCCAGAGAGAGCGGCGAGCTTACGAGTC 3600

RESULT 10
US-08-441-971-8
; Sequence 8, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P. C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 MAY 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEU
INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-971-8

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATTCGTGAGGAACTCAATCTACAGTGTGACTT 60
DB 1 CTCACGGGTGATGAGATGACATCGGTGAGGAGTCAATTTACAAAGTTGACTT 60
QY 61 GAGCCCGGAGGCGCCAGAGCCATTAAGTCTGCTCACCAGCGGCTGTATATCGGGGTC 120
DB 61 GAGCCCGGAGGCGCCAGAGCCATTAAGTCTGCTCACCAGCGGCTGTATATCGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGAGACTGCGGCTACCTGCTGCGGCGCCAGCGGCTGCT 180
DB 121 CCTGACTAATTCAAAGGCGAGACTGCGGCTATGCGCGCTATGCGCGCGGCTGCT 180
QY 181 GACTACCACTGCGGCTATATACCTTCACATGTTACTTTGAAAGCGACATGCGGCTGTAGAGC 240
DB 181 GACGACTGAGTGGGTATATACCTTCACATGTTACTTTGAAAGCGACATGCGGCTGTAGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGACCAATGCTGCTGCGGAGAGCACTTGTCTGTATCTGTA 300
DB 241 TGGCAAGCTCCAGAGCTGACCAATGCTGCTGCGGAGAGCACTTGTCTGTATCTGTA 300
QY 301 GAGTGCAGAGTTCGAGAGAGATGCGGCGCAACCTACGAGTC 340
DB 301 AAGCGCGGGAACCCAGAGAGATGCGGCGAGCTACGAGTC 340

RESULT 11
US-08-441-971-11
Sequence 11, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-441-971-11

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATTCGTGAGGAACTCAATCTACAGTGTGACTT 60
DB 1 CTCACAGTCACTGAGATGACATCGGTGAGGAGTCAATTTACCAATGTTGACTT 60
QY 61 GAGCCCGGAGGCGCCAGAGCCATTAAGTCTGCTCACCAGCGGCTGTATATCGGGGTC 120
DB 61 GAGCCCGGAGGCGCCAGAGCCATTAAGTCTGCTCACCAGCGGCTGTATATCGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGAGAACTGCGGCTACCTGCTGCGGCGCCAGCGGCTGCT 180
DB 121 CCTGACTAATTCAAAGGCGAGAACTGCGGCTATGCGCGGCTATGCGCGCGGCTGCT 180
QY 181 GACTACCACTGCGGCTATATACCTTCACATGTTACTTTGAAAGCGACAGGCGGCTGTAGAGC 240
DB 181 GACGACTGAGTGGGTATATACCTTCACATGTTACTTTGAAAGCGCTGTGCGGCTGTAGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGACCAATGCTGCTGCGGAGAGCACTTGTCTGTATCTGTA 300
DB 241 TGGCAAGCTCCAGAGCTGACCAATGCTGCTGCGGAGAGCACTTGTCTGTATCTGTA 300
QY 301 GAGTGCAGAGTTCGAGAGAGATGCGGCGCAACCTACGAGTC 340
DB 301 GAGCGCGGGAACCCAGAGAGATGCGGCGAGCTACGAGTC 340

RESULT 12
US-08-221-653-8
Sequence 8, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528

FILED DATE: 07/697,326
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-221-653-8

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGAACGACATTCGTGCGAGGAATCAATCTACAGTGTGACTT 60
DB 1 CTCACGCTGCTAGAGATGACATCCGTGTTGAGAGTCAATTTTCAAAAGTTGACTT 60
QY 61 GGGCCCCGAGGCGCCCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTATTCGAGGCTCC 120
DB 61 GGGCCCCGAGGCGCCCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTATTCGAGGCTCC 120
QY 121 CCTAACCACTCAAAAGGCGAGAACTGCGGCTACCGCTGCGTCCGCGGCGGCTGCT 180
DB 121 CCTGACTAATTCAAAGGCGAGAACTGCGGCTACCGCTGCGTCCGCGGCGGCTGCT 180
QY 181 GACTACGAGTCTGCGGTATTAACCTCAATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTGCGGTATTAACCTCAATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
QY 241 TCGGAGCTCCAGACTGCAACAATGCTGCTGCGAGAGCACTTGTCTGTATCTGTA 300
DB 241 TCGGAGCTCCAGACTGCAACAATGCTGCTGCGAGAGCACTTGTCTGTATCTGTA 300
QY 301 GAGTGCRCGAGTCCAGAGAGATGCGGCGAACCCTACGAGTC 340
DB 301 GAGGCGGGAACCCAGAGAGATGCGGCGAACCCTACGAGTC 340

RESULT 13
US-08-221-653-11
Sequence 11, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-221-653-11

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGAACGACATTCGTGCGAGGAATCAATCTACAGTGTGACTT 60
DB 1 CTCACGCTGCTAGAGATGACATCCGTGTTGAGAGTCAATTTTCAAAAGTTGACTT 60
QY 61 GGGCCCCGAGGCGCCCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTATTCGAGGCTCC 120
DB 61 GGGCCCCGAGGCGCCCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTATTCGAGGCTCC 120
QY 121 CCTAACCACTCAAAAGGCGAGAACTGCGGCTACCGCTGCGTCCGCGGCGGCTGCT 180
DB 121 CCTGACTAATTCAAAGGCGAGAACTGCGGCTACCGCTGCGTCCGCGGCGGCTGCT 180
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DB 181 GACGACTAGCTGCGGTATTAACCTCAATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
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QY 301 GAGTGCRCGAGTCCAGAGAGATGCGGCGAACCCTACGAGTC 340
DB 301 GAGGCGGGAACCCAGAGAGATGCGGCGAACCCTACGAGTC 340

RESULT 14
US-08-442-144A-8
Sequence 8, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville

STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-442-144A-8

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;
QY 1 CTCGACACTTACTGAGACGACATTCGTGCGAGAAATCTTACCAAGTCTGTGACTT 60
DB 1 CTCACGGTCACTGAGATGACATCCGTGTGAGAGATCAATTACCAAGTGTGACTT 60
QY 61 GGGCCCCGAGGCCCCGACAGGCGCATTAAGTCCGCTCACCGAGCGGCTGTATTCGGGGGTC 120
DB 61 GGGCCCCGAGGCCCCGACAGGCGCATTAAGTCCGCTCACAGCGGCTTATCATTCGGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGCAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCT 180
DB 121 CCTGACTAATTCAAAAGGCGCAGAACTGCGGCTATCGCGCATGCGCGCCAGCGGCT 180
QY 181 GACTACCACTGCGGTATATCCCTCAATGTTACTTGAAGCCAGGGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGCGGTATATCCCTCAATGTTACTTGAAGCCAGCTGCGGCGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCACAATGCTGCTGCGGAGAGCACTTGTGTTATCTGGA 300
DB 241 TGGCAAGCTCCAGAGCTGCACAATGCTGCTGCGGAGAGCACTTGTGTTATCTGGA 300
QY 301 GAGTGCAGAGTTCAGAGAGATGCGGCGAACCTTACGAGTC 340
DB 301 AAGCGCGGGAACCCAGAGAGATGCGGCGAACCTTACGAGTC 340

RESULT 15
US-08-442-144A-11
Sequence 11, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-442-144A-11

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;
QY 1 CTCGACAGTTACTGAGACGACATTCGTGCGAGAAATCAATCTTACCAAGTCTGTGACTT 60
DB 1 CTCACAGTCACTGAGATGACATCCGTGTGAGAGATCAATTACCAATGTTGTGACTT 60
QY 61 GGGCCCCGAGGCCCCGACAGGCGCATTAAGTCCGCTCACCGAGCGGCTGTATTCGGGGGTC 120
DB 61 GGGCCCCGAGGCCCCGACAGGCGCATTAAGTCCGCTCACAGAGCGGCTGTACATTCGGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGCAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCTGTGCT 180
DB 121 CCTGACTAATTCAAAAGGCGCAGAACTGCGGCTATCGCGCATGCGCGCCAGCGGCTGTGCT 180
QY 181 GACTACCACTGCGGTATATCCCTCAATGTTACTTGAAGCCAGGGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGCGGTATATCCCTCAATGTTACTTGAAGCCCTGCTGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCACAATGCTGCTGCGGAGAGCACTTGTGTTATCTGGA 300
DB 241 TGGCAAGCTCCAGAGCTGCACAATGCTGCTGCGGAGAGCACTTGTGTTATCTGGA 300
QY 301 GAGTGCAGAGTTCAGAGAGATGCGGCGAACCTTACGAGTC 340
DB 301 GAGCGCGGGAACCCAGAGAGATGCGGCGAACCTTACGAGTC 340

Search completed: January 11, 2006, 10:56:29
Job time : 83.331 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 157.882 Seconds

(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075b-59

Perfect score: 652
Sequence: 1 cgtacagcccccagaccaccc.....accctatgggtatcacgcg 652Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Issued Patents NA:*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
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- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfilest.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	650	99.7	652	3	US-08-836-075A-59
2	579.6	88.9	1499	2	US-08-324-977-3
3	579.6	88.9	1499	2	US-08-384-616-3
4	579.6	88.9	1499	2	US-08-904-686A-3
5	579.6	88.9	1499	2	US-09-315-850-3
6	579.6	88.9	2116	2	US-08-191-160-21
7	579.6	88.9	9416	2	US-08-324-977-1
8	579.6	88.9	9416	2	US-08-384-616-1
9	579.6	88.9	9416	2	US-08-904-686A-1
10	579.6	88.9	9416	3	US-09-315-850-1
11	579.6	88.9	9416	3	US-08-823-895A-27
12	576.4	88.4	780	3	US-08-474-700B-45
13	575.6	88.3	9379	3	US-08-444-818-176
14	575.6	88.3	9401	6	PCT-US91-02225-9
15	575.6	88.3	1863	2	US-08-470-426B-13
16	575.4	88.3	1863	2	US-08-470-426B-14
17	574.8	88.2	923	6	PCT-US95-13552-14
18	574.8	88.2	923	6	US-08-432-693-1
19	574.8	88.2	9416	3	US-08-811-566-19
20	574.8	88.2	9416	3	US-09-034-756-19
21	574.8	88.2	9416	3	US-08-823-895A-26
22	574.8	88.2	9416	3	US-10-104-966-13
23	574.8	88.2	9416	3	US-09-929-955-13
24	574.8	88.2	9416	3	US-09-929-955-13

25	574.8	88.2	9595	3	US-09-014-416-4	Sequence 4, Appl1
26	574.8	88.2	9599	3	US-09-014-416-2	Sequence 2, Appl1
27	574.8	88.2	9599	3	US-09-014-416-6	Sequence 6, Appl1
28	574.8	88.2	9646	3	US-08-811-566-1	Sequence 1, Appl1
29	574.8	88.2	9646	3	US-09-034-756-1	Sequence 1, Appl1
30	574.8	88.2	10803	3	US-10-259-275-17	Sequence 17, Appl1
31	574.8	88.2	12960	3	US-08-811-566-5	Sequence 5, Appl1
32	574.8	88.2	12960	3	US-09-034-756-5	Sequence 5, Appl1
33	573.2	87.9	9185	3	US-08-444-818-122	Sequence 122, App
34	573.2	87.9	9185	3	US-08-444-818-123	Sequence 123, App
35	573.2	87.9	9365	3	US-09-827-688-7	Sequence 7, Appl1
36	573.2	87.9	9379	3	US-09-388-874-1	Sequence 1, Appl1
37	573.2	87.9	9379	3	US-09-166-359-1	Sequence 1, Appl1
38	573.2	87.9	9401	2	US-07-910-760-9	Sequence 9, Appl1
39	573.2	87.9	9401	2	US-08-440-519-9	Sequence 9, Appl1
40	573.2	87.9	9401	3	US-08-440-549-9	Sequence 9, Appl1
41	573.2	87.9	9401	3	US-08-823-895A-25	Sequence 25, Appl1
42	573.2	87.9	9413	3	US-08-150-204E-96	Sequence 96, Appl1
43	569	87.3	9413	3	US-09-827-688-6	Sequence 6, Appl1
44	549.2	84.2	665	3	US-08-444-818-94	Sequence 94, Appl1
45	549.2	84.2	665	3	US-08-444-818-95	Sequence 95, Appl1

ALIGNMENTS

RESULT 1
US-08-836-075A-59
Sequence 59, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 59:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-59

Query Match 99.7%; Score 650; DB 3; Length 652;
Best Local Similarity 100.0%; Pred. No. 2,4e-173;
Matches 652; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTGAG 60
QY 61 TACACCGGAATTGCGAGAGACGCGGATCTTTCTTGATCAACCCGCTCAATGCTTGA 120
DB 61 TACACCGGAATTGCGAGAGACGCGGATCTTTCTTGATCAACCCGCTCAATGCTTGA 120
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DB 121 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTATGTGGTGGCGAAAGGCTTGG 180
QY 181 TGCTACTGCTGATGAGGTGCTGGAGTGGCCCGGAGGTCTGTAGACCGTGACCAT 240
DB 181 TGCTACTGCTGATGAGGTGCTGGAGTGGCCCGGAGGTCTGTAGACCGTGACCAT 240
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DB 241 GAGCAGCAATCTTAACTCAAGAAAAACCAAGAAACCAACCGCGCCGACAGAGA 300
QY 301 CGTCAAGTTCGCGGCGGTGGCCAGATGTTGTGTGATCTACGCTGCTACCGCGAGGGG 360
DB 301 CGTCAAGTTCGCGGCGGTGGCCAGATGTTGTGTGATCTACGCTGCTACCGCGAGGGG 360
QY 361 CCTCAGATTGGGTGGCGGAGCGCGGAGAGACTTGGAGGCGGTGCAACCTCGTGAGG 420
DB 361 CCTCAGATTGGGTGGCGGAGCGCGGAGAGACTTGGAGGCGGTGCAACCTCGTGAGG 420
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DB 481 CCCCTGCGCTCTTATGTTAGAGAGGGCTGGGGGTGGGAGGTTNGGCTCTGCTCCCTCG 540
QY 541 CGGCTCCCGCTCTAGTGGGGGTCTACTGACCCCGGCGGTAGTACGCAATTGGGTAA 600
DB 541 CGGCTCCCGCTCTAGTGGGGGTCTACTGACCCCGGCGGTAGTACGCAATTGGGTAA 600
QY 601 GGTATCATGATACCTCAAGTGTGTTGCGCCGACCTCATGGGGTACATACCG 652
DB 601 GGTATCATGATACCTCAAGTGTGTTGCGCCGACCTCATGGGGTACATACCG 652

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RESULT 2
US-08-324-977-3
Sequence 3, Application US/08324977
Patent No. 5747339

GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006

COMPUTER READABLE FORM:

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MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
ID NO: 1"
US-08-324-977-3

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Query Match 88.9%; Score 579.6; DB 2; Length 1499;
Best Local Similarity 92.9%; Pred. No. 2.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAAACCGGTGAG 60
DB 95 CGTCAAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAAACCGGTGAG 154
QY 61 TACACCGGAATTGCGAGAGACGCGGATCTTTCTTGATCAACCCGCTCAATGCTTGA 120
DB 155 TACACCGGAATTGCGAGAGACGCGGATCTTTCTTGATCAACCCGCTCAATGCTTGA 214
QY 121 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTATGTGGTGGCGAAAGGCTTGG 180
DB 215 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTATGTGGTGGCGAAAGGCTTGG 274
QY 181 TGCTACTGCTGATGAGGTGCTGGAGTGGCCCGGAGGTCTGTAGACCGTGACCAT 240
DB 275 TGCTACTGCTGATGAGGTGCTGGAGTGGCCCGGAGGTCTGTAGACCGTGACCAT 334
QY 241 GAGCAGCAATCTTAACTCAAGAAAAACCAAGAAACCAACCGCGCCGACAGAGA 300

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Db      335 GAGCAGCAATCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAGGA 394
Qy      301 CGTCAAGTTCCCGGGCGGTGGCCAGATGTTGTGGAGTACAGGCTACCGCGAGGG 360
Db      395 CGTCAAGTTCCCGGGCGGTGGCCAGATGTTGTGGAGTACAGGCTACCGCGAGGG 454
Qy      361 CCTAGATTGGGTGTGCGGAGCGCGAGAGACTTCGAGCGGTGCGAACCTCGTGGAG 420
Db      455 CCCAGGTTGGGTGTGCGGCGGCCAGAGAGCTTCGAGCGGTGCGAACCTCGTGGAG 514
Qy      421 GCGCAACTTATTTCCAGAGAGCGCGGACCCGAGGCGAGTCTGGGCGCGACCCGGGTA 480
Db      515 GCGCAACTTATTTCCAGAGAGCGGTGCGCGCCGAGGCGAGAGCTGGGCTCAGCCCGGTA 574
Qy      481 CCCCTGCGCCCTTATGTTAAGAGGCGGTGGGCGGTGGGAGTGGGCTCGTCCCTCG 540
Db      575 CCTTGGCTCTCTATGAGCAATGAGGGCTTAAAGGGGCGAGAGGCTCTGTCACCCG 634
Qy      541 CGGCTCCCGCTTATGTTGGGTCTTACTGACCCCGCGGTAGTACGCAATTTGGGTA 600
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Qy      601 GGTCAATGATACCTCTACAGTGTGTTGTCGCGACCTCATGGGGTACATACCG 652
Db      695 GGTCAATGATACCTCTACAGTGTGTTGTCGCGACCTCATGGGGTACATACCG 746

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RESULT 3

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US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESS: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.

```

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; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; NAME/KEY: misc feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
; US-08-384-616-3
; OTHER INFORMATION: ID NO: 1"

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Query Match 88.9%; Score 579.6; DB 2; Length 1499;
Best Local Similarity 92.9%; Pred. No. 2,2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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Qy      1 CGTACAGCTTCCAGAGACCCCTCCCGGAGAGCCCTATGTTGTTCCGGAACCGGTGAG 60
Db      95 CGTACAGCTTCCAGAGACCCCTCCCGGAGAGCCCTATGTTGTTCCGGAACCGGTGAG 154
Qy      61 TACACCGGAATTGCGAGAGAGACCGGGTCTTCTTGGATCAACCCGCTCAATCTGGA 120
Db      155 TACACCGGAATTGCGAGAGAGACCGGGTCTTCTTGGATCAACCCGCTCAATCTGGA 214
Qy      121 GATTGGGCGTCCCGCGCAAGACTGCTACCGAGTAGTGTGGGTGCGAAAGCCTTG 180
Db      215 GATTGGGCGTCCCGCGCAAGACTGCTACCGAGTAGTGTGGGTGCGAAAGCCTTG 274
Qy      181 TGTACTGCTGATAGGTGCTTGCAGAGTCCCGGAGAGTCTCTGAGACCGTACCAT 240
Db      275 TGTACTGCTGATAGGTGCTTGCAGAGTCCCGGAGAGTCTCTGAGACCGTACCAT 334
Qy      241 GAGCAGCAATCTTAACCTTAAGAAAAACCAAGAAACCAACCGCGCCACAGGA 300
Db      335 GAGCAGCAATCTTAACCTTAAGAAAAACCAAGAAACCAACCGCGCCACAGGA 394
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Db      515 GCGCAACTTATTTCCAGAGAGCGGTGCGCGCCGAGGCGAGAGCTGGGCTCAGCCCGGTA 574
Qy      481 CCCCTGCGCCCTTATGTTAAGAGGCGGTGGGCGGTGGGAGTGGGCTCGTCCCTCG 540
Db      575 CCTTGGCTCTCTATGAGCAATGAGGGCTTAAAGGGGCGAGAGGCTCTGTCACCCG 634
Qy      541 CGGCTCCCGCTTATGTTGGGTCTTACTGACCCCGCGGTAGTACGCAATTTGGGTA 600
Db      635 CGGCTCCCGCTTATGTTGGGTCTTACTGACCCCGCGGTAGTACGCAATTTGGGTA 694
Qy      601 GGTCAATGATACCTCTACAGTGTGTTGTCGCGACCTCATGGGGTACATACCG 652
Db      695 GGTCAATGATACCTCTACAGTGTGTTGTCGCGACCTCATGGGGTACATACCG 746

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RESULT 4

US-08-904-686A-3
 ; Sequence 3, Application US/08904686A
 ; Patent No. 5998130
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/904,686A
 ; FILING DATE: 01-AUG-1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/324,977
 ; FILING DATE: 18-OCT-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/099,706
 ; FILING DATE: 30-JUL-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Mclelland, Le-Nhung
 ; REGISTRATION NUMBER: 31,541
 ; REFERENCE/DOCKET NUMBER: 900703G
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1499 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 333..1499
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 1..1499
 ; OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
 ; ID NO: 1"
 ; US-08-904-686A-3

Query Match 88.9%; Score 579.6; DB 2; Length 1499;
 Best Local Similarity 92.9%; Pred. No. 2.2e-153;
 Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

Qy	1	CGTACAGCTTCACAGACCCCTCCCGGAGAGCCATATGCTTCGCGAACCCTGTAG	60
Db	95	CGTACAGCTTCACAGACCCCTCCCGGAGAGCCATATGCTTCGCGAACCCTGTAG	154
Qy	61	TACACCGGAATTCACAGACGACCGGGTCTTCTTGATCAACCCGCTCAATGCTTGA	120
Db	155	TACACCGGAATTCACAGACGACCGGGTCTTCTTGATCAACCCGCTCAATGCTTGA	214
Qy	121	GATTGGCGTCGCCCGCAAGACTGCTACCGAGTAGTGTGGTTCGAAAGCCTTG	180
Db	215	GATTGGCGTCGCCCGCAAGACTGCTACCGAGTAGTGTGGTTCGAAAGCCTTG	274
Qy	181	TGTTACTGCTGATAGGCTCTTCCAGTGTCCCGGAGGTCTTCGTAGACCTGTACCAT	240
Db	275	TGTTACTGCTGATAGGCTCTTCCAGTGTCCCGGAGGTCTTCGTAGACCTGTACCAT	334
Qy	241	GAGCAGGAATCCTAAACCTCAAGAAACCAAAACCAACCAACCGCCGCAAGCA	300
Db	335	GAGCAGGAATCCTAAACCTCAAGAAACCAAAACCAACCAACCGCCGCAAGCA	394
Qy	301	CGTCAAGTCCCGGCGGTGCGCAGATCGTTGTGAGTCTAGCTACCGCGCAGGG	360
Db	395	CGTCAAGTCCCGGCGGTGCGCAGATCGTTGTGAGTCTAGCTACCGCGCAGGG	454
Qy	361	CCCTAAGTTGGGTGTGCGCGCAGCGGAGACTTCGAGACCGTTCGTAACCTGTGGAG	420
Db	455	CCCGAGTTGGGTGTGCGCGCGCCAGGAAGACTTCGAGACCGTTCGTAACCTGTGGAG	514
Qy	421	GGCCCAACTATTCCCAAGAGCGCCGACCCGAGGGCAGGTCTCTGGCGCAGCCGGGTA	480
Db	515	GGCAAACTATCCCAAGGCTGCGCGCCGAGGGCAGACTCTGGGCTACGCCGGGTA	574
Qy	481	CCCTGGCCCTCTATGTAACGAGGCTGCGGTGGGAGTNGCTCTGTCTCCCTCG	540
Db	575	CCCTGGCCCTCTATGTAACGAGGCTGCGGTGGGAGTNGCTCTGTCTCCCTCG	634
Qy	541	CGGCTCCGCTCTATGTTGGGCTCTACTGACCCCGCGCTGATGCTACGCAATTTGGTAA	600
Db	635	CGGCTCCGCTCTATGTTGGGCTCTACTGACCCCGCGCTGATGCTGCTAATTTGGTAA	694
Qy	601	GGTATGATACCTCTCACTGTTGNTCCCGGACCTCATGGGGTACATACCG	652
Db	695	GGTATGATACCTCTCACTGCGGCTTCCCGATCTCATGGGGTACATTCGG	746

RESULT 5
 US-09-315-850-3
 ; Sequence 3, Application US/09315850
 ; Patent No. 6217872
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315,850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: McLeiland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-09-315-850-3
Query Match      88.9%; Score 579.6; DB 3; Length 1499;
Best Local Similarity 92.9%; Pred. No. 2.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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Db 335 GAGCAGCAATCTCTAAACCTCAAGAAAAACCAACGTAACCAACCGCCGACAGGA 394
Qy 301 CGTCAATTTCCCGGCGGTGGCCAGATCGTTGGAGTCTACTGCTACCGCCAGAGG 360
Db 395 CGTCAAGTTCCCGGCGGTGGCCAGATCGTTGGAGTCTACTGCTACCGCCAGAGG 454
Qy 361 CCTAGATTGGGTGTGGCCGAGCGCGGAAGACTTGGAGCGGTGCAACTCGTGGAG 420
Db 455 CCCAGATTGGGTGTGGCCGAGCGCGGAAGACTTGGAGCGGTGCAACTCGTGGAG 514
Qy 421 GCGCAACTATTTCCCAAGAGCGCCGACCCGAGGAGTCTTGGGCGAGCCCGGATA 480
Db 515 GCGACAACCTATCCCAAGGCTCGCCGCGGAGGAGGACCTGAGCTCAGCCGGGATA 574
Qy 481 CCCCTGGCCCTCTATAGTAAACGAGGCTCGGCTGGGCGAGTNGGCTCTGTCCTCG 540
Db 575 CCTTGGCTCTCTATAGTAAACGAGGCTTGGGCGAGGAGTNGGCTCTGTCCTCG 634
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Db 635 CGGCTCCGCTCTATAGTAAACGAGGCTTGGGCGAGGAGTNGGCTCTGTCCTCG 694
Qy 601 GGTCAATGATACCTCTCAAGGTTGTTGTTGCGGACCTCATGAGGATACATACCG 652
Db 695 GGTCAATGATACCTCTCAAGGTTGTTGTTGCGGACCTCATGAGGATACATACCG 746

RESULT 6
US-08-191-160-21
Sequence 21, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Figg, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744

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; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 2116 base pairs
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;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: cDNA to genomic RNA
; ORIGINAL SOURCE:
; ORGANISM: human; serum infectious for PT-NANBH
; IMMEDIATE SOURCE:
; LIBRARY: cDNA clones from 5' end of the genome
; LOCATION: from 308 to 2116 bp start of the PT-NANBH
; OTHER INFORMATION: viral structural and non-structural
; OTHER INFORMATION: proteins
;
US-08-191-160-21

Query Match      88.9%; Score 579.6; DB 3; Length 2116;
Best Local Similarity 92.9%; Pred. No. 2.5e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 1 CGTACAGCCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAAACCGGTAG 60
DB 70 CGTGAGCCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAAACCGGTAG 129
QY 61 TACACCGGAATTGGCAGAGACGCGGGTCTTTCTTGATGAACCCGCTCAATGCTTGA 120
DB 130 TACACCGGAATTGGCAGAGACGCGGGTCTTTCTTGATGAACCCGCTCAATGCTTGA 189
QY 121 GATTGGGCGTCCCGGCAAGACTGTAGCCGATAGTGTGGTTCGGAAGCCTTG 180
DB 190 GATTGGGCGTCCCGGCAAGACTGTAGCCGATAGTGTGGTTCGGAAGCCTTG 249
QY 181 TGTACTCTGATAGTGGTGTCTTGCAGTGTCCCGGAGGTCTCTAGACCGTGACCAT 240
DB 250 TGTACTCTGATAGTGGTGTCTTGCAGTGTCCCGGAGGTCTCTAGACCGTGACCAT 309
QY 241 GAGCAGGAATCTTAACCTCAAGAAAGAAACCAAGACCGCGCCGACAGGA 300
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QY 301 CGTCAAGTTCCTGCGGCGGTGCGCAGATGCTTGTGAGTCTTACGCTTACCGCGAGGGG 360
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QY 361 CCTTAGATTTGGTGTGCGCGAGCGCGGAGACCTTGTGAGCGGTGCAACTCTGTGGAG 420
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QY 421 GCGGCAACCTTATTCGCAAGAGCGCGACCGGAGGGGAGTCTGAGGGGAGCGCGGGTA 480
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QY 541 CGGCTCCGCTCTAGTGTGGGCTCTTACGACCCCGGAGGTGAGTACCGCAATTTGGGTA 600
DB 610 TGGCTCCGCGCTCTAGTGTGGGCTCTTACGACCCCGGAGGTGAGTACCGCAATTTGGGTA 669
QY 601 GGTCAATGATACCTCAAGTGTGTTGTTGCGGACCTCAATGGGGTACATACCG 652
DB 670 AGTCATCGATACCTCAAGTGTGTTGTTGCGGACCTCAATGGGGTACATACCG 721

RESULT 7
US-08-324-977-1
; Sequence 1, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
```

```
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chiato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Ikao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 658-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 9416 base pairs
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;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..9362
;
US-08-324-977-1

Query Match      88.9%; Score 579.6; DB 2; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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D 575 CCTTGGCTCTCTATAGGCAATGAGGGCTTAGGGGTGCGCAGATGCTCTGTACCCCG 634
QY 541 CGGCTCCCGTCTTATAGTGGGTCTTACTGACCCCGCGTNGAGTACGCAATTTGGGTA 600
D 635 CGGCTCCCGGCTTATAGTGGGTCTTACTGACCCCGCGGAGTNGAGTCTGCTAATTTGGGTA 694
QY 601 GGTATGATGATCCCTCAACGTTGNTTCCGCGACCTCATAGGGGTACATCCG 652
D 695 GGTATGATGATCCCTCAACGTTGNTTCCGCGACCTCATAGGGGTACATCCG 746

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RESULT 8

US-08-384-616-1

Sequence 1, Application US/08384616

Patent No. 5847101

GENERAL INFORMATION:

APPLICANT: OKAYAMA, Hiroto

APPLICANT: FUKU, Isao

APPLICANT: MORI, Chisato

APPLICANT: TAKAMIZAWA, Akahisa

APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &

ADDRESSEE: Naughton

STREET: 1725 K St. N.W. Suite 1000

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20006

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 in, 1.44MB

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/384,616

FILING DATE:

CLASSIFICATION: 424

APPLICATION NUMBER: US 07/769,996

FILING DATE: 02-OCT-1991

APPLICATION NUMBER: JP 2-167466

FILING DATE: 25-JUN-1990

PRIOR APPLICATION DATA:

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/ APPLICATION NUMBER: JP 2-230921
/ FILING DATE: 31-AUG-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: JP 2-305605
/ FILING DATE: 09-NOV-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/635,451
/ FILING DATE: 28-DEC-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Stevens-Smith, Theresa M.
/ REGISTRATION NUMBER: 36,281
/ REFERENCE/DOCKET NUMBER: 900703B
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (202) 659-2930
/ TELEFAX: (202) 887-0357
/ TELEX: 440142
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 9416 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA from genomic RNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 333..9362
/ US-08-384-616-1

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Query Match 88.9%; Score 579.6; DB 2; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4,2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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QY 1 CGTACACCTCCAGAGACCCCTCCCGGAGAGCACTAGTGTCTCGGAACCGGTGAG 60
D 95 CGTACACCTCCAGAGACCCCTCCCGGAGAGCACTAGTGTCTCGGAACCGGTGAG 154
QY 61 TACACCGGAATTCGACAGAGACGCGGCTCTTCTTGATCAACCCGCTAATGCTGGA 120
D 155 TACACCGGAATTCGACAGAGACGCGGCTCTTCTTGATCAACCCGCTAATGCTGGA 214
QY 121 GATTGGGCGTGGCCCGCAAGACTGTGACCCGAGTNGAGTGTGGGTGCGAAAGCCCTTG 180
D 215 GATTGGGCGTGGCCCGCAAGACTGTGACCCGAGTNGAGTGTGGGTGCGAAAGCCCTTG 274
QY 181 TGTGACTGCTGATAGGGTGTCTTGGGATGCCCCGGGAGGTCTGTGATACCGTGCACCAT 240
D 275 TGTGACTGCTGATAGGGTGTCTTGGGATGCCCCGGGAGGTCTGTGATACCGTGCACCAT 334
QY 241 GAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCGCCCAACAGGA 300
D 335 GAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCGCCCAACAGGA 394
QY 301 CGTCAAGTTCGCGGCGGTGCGCAGATGTTGTGTGATCTAAGTCTACCGCGCAGGGG 360
D 395 CGTCAAGTTCGCGGCGGTGCGCAGATGTTGTGTGATCTAAGTCTACCGCGCAGGGG 454
QY 361 CCTTAGATTGGGTGTGCGCGCAGCGCGGAGACTTCCGAGCGGTGCAACTCTGTGGAG 420
D 455 CCCAGGTTGGGTGTGCGCGCGCGCGGAGAGACTTCCGAGCGGTGCGCAACTCTGTGGAG 514
QY 421 GCGCAACCTTATCCCAAGAGCGCGCAACCGAGGAGCTCTGGGCGCAGCCCGGTA 480
D 515 GCGCAACCTTATCCCAAGAGCTCGCGCGCGAGGCGAGACTGGGCTCAGCCCGGTA 574
QY 481 CCCCTGGCCCTCTATAGGTAAAGAGGCTGCGGCTGAGTCTAGCTGCTACCGCGCAGGG 540
D 575 CCTTGGCTCTCTATAGGCAATGAGGGCTTAGGGGTGCGCAGATGCTCTGTACCCCG 634
QY 541 CGGCTCCCGTCTTATAGTGGGTCTTACTGACCCCGCGTNGAGTACGCAATTTGGGTA 600
D 635 CGGCTCCCGGCTTATAGTGGGTCTTACTGACCCCGCGGAGTNGAGTCTGCTAATTTGGGTA 694
QY 601 GGTATGATGATCCCTCAACGTTGNTTCCGCGACCTCATAGGGGTACATCCG 652

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Db 695 GGTATGATGATCCTTCACATGCGGCTTCGCCGATCTCATGTGGGTACATTCG 746

RESULT 9
US-08-904-686A-1
; Sequence 1, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McIeland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: McIeland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS: 50
; LENGTH: 9416 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..9362
; US-08-904-686A-1

Query Match 88.9%; Score 579.6; DB 2; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

Qy 1 GGTACAGCTTCACAGAGCCCCCTCCCGGAGAGCCATATGCTTCGCGAACCCTGTAG 60
Db 95 CGTGACAGCTTCACAGAGCCCCCTCCCGGAGAGCCATATGCTTCGCGAACCCTGTAG 154
Qy 61 TACACCGGAATTCGACAGAGAGACCGGGTCTTTCTTGATCAACCCGCTCAATGCTTGA 120
Db 155 TACACCGGAATTCGACAGAGAGACCGGGTCTTTCTTGATCAACCCGCTCAATGCTTGA 214
Qy 121 GATTGGGCGTGCCTCCCGCAAGACTGTACCCAGTAGTGTGGTTCGAAAAGCCTTG 180
Db 215 GATTGGGCGTGCCTCCCGCAAGACTGTACCCAGTAGTGTGGTTCGAAAAGCCTTG 274
Qy 181 TGTACTGCTGATAGGTGTCTTCCGAGTCCCGGAGAGTCTCTGAGACCGTGCACAT 240
Db 275 TGTACTGCTGATAGGTGTCTTCCGAGTCCCGGAGAGTCTCTGAGACCGTGCACAT 334
Qy 241 GAGCAGAAATCCTAAACCTCAAGAAAACCAAGAAACCAACCAACCCGCGCAGAGA 300
Db 335 GAGCAGAAATCCTAAACCTCAAGAAAACCAAGAAACCAACCAACCCGCGCAGAGA 394
Qy 301 CGTCAAGTTCGCGGCGGTGCGCAGATCGTTGTGAGTCTAGCTGACCGCGAGAG 360
Db 395 CGTCAAGTTCGCGGCGGTGCGCAGATCGTTGTGAGTCTAGCTGACCGCGAGAG 454
Qy 361 CCTAAGTTGGGTGTGCGCGCAGCGGAGAGACTTCGAGACCGGTTCGAACTCTGTGGAG 420
Db 455 CCCAGGTTGGGTGTGCGCGCGCAGAGAGACTTCGAGACCGGTTCGAACTCTGTGGAG 514
Qy 421 GCGCCAACTATTCCCAAGAGCGCGACCCGAGAGGAGTCTGTGGCGAGCCGGGTA 480
Db 515 GCGCCAACTATTCCCAAGAGCGCGACCCGAGAGGAGTCTGTGGCGAGCCGGGTA 574
Qy 481 CCCCTGCCCCCTTATGTAACGAGGCTGCGGTGGCGAGTGGCTCTGTCCTCTCG 540
Db 575 CCTTGGCTCTCTATGGAATGAGGGCTTAGGGTGGCGAGATGGCTCTGTACACCCG 634
Qy 541 CGGCTCCCGTCTAGTGGGGTCTTACTGACCCCGCGTATAGTCAAGCAATTGGGTAA 600
Db 635 CGGCTCCCGTCTAGTGGGGTCTTACTGACCCCGCGTATAGTCAAGCAATTGGGTAA 694
Qy 601 GGTATGATGATCCTTCACATGCGGCTTCGCCGATCTCATGGGTACATTCG 652
Db 695 GGTATGATGATCCTTCACATGCGGCTTCGCCGATCTCATGGGTACATTCG 746

RESULT 10
US-09-315-850-1
; Sequence 1, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McIeland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible


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OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315,850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9416 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..9362
US-09-315-850-1

Query Match      88.9%; Score 579.6; DB 3; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;
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Db      395 GGTCAAGTTCCTCCGGGCGGTGGTCAAGATCGTTGGTAGATTAACTGTTGCCGCGCAGGAG 454
Qy      361 CCTAGATGGGTGTGGGCGCCAGCGGAGACTTGGAGCCGTCGCACTGTGGAG 420
Db      455 CCCAGGTTGGGTGTGGGCGCCGCGGAGAAAGACTTCCGACCGGTCCGAACCTGTGGAG 514
Qy      421 GCGCAACTATTTCCTCAAGAGAGCGCCGACCCGAGGCGAGGTCTCTGGGCGAGCCCGGTA 480
Db      515 GCGACAACCTATCCCAAGGCTCGCCGCGCGAGGCGAGACCTCGGCTAGCCCCGGTA 574
Qy      481 CCCCTGCCCCCTTATGTAAAGAGGCTGCGGGTGGCGAGTNGCTCTCTGTCCTCG 540
Db      575 CCCTGGCTCTCTATGGAATAGGGCTTAGGGTGGGACAGATGGCTCTGTCAACCCG 634
Qy      541 CCGTCCCGTCTTATGGGTCTCTACTAGCCCCCGCGTAAAGTTCAGCAATTTGGTAA 600
Db      635 CCGCTCCCGGCTTATGGTGGGCGCCCAAGAGCCCGCGTAAAGTTCGATTTGGTAA 694
Qy      601 GGTATCATATACCTCAAGTGTGTTGTCGCGCACTCATGAGGATACATACCG 652
Db      695 GGTATCATATACCTCAAGTGTGTTGTCGCGCACTCATGAGGATACATACCG 746

RESULT 11
US-08-823-895A-27
Sequence 27, Application US/08823895A
Patent No. 6433159
GENERAL INFORMATION:
APPLICANT: Kevin P. Anderson
TITLE OF INVENTION: Compositions And Methods For
TITLE OF INVENTION: Treatment Of Hepatitis C Virus-Associated Diseases
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Jane Massey Licata, Esq.
STREET: 66 E. Main Street
CITY: Marlton
STATE: NJ
COUNTRY: USA
ZIP: 08053
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
COMPUTER: IBM 486
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/823,895A
FILING DATE: March 17, 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/453,085
FILING DATE: May 30, 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/945,289
FILING DATE: September 10, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE/DOCKET NUMBER: ISPH-0203
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 779-2400
TELEFAX: (609) 810-1454
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 9416
TYPE: Nucleic
STRANDEDNESS: single
TOPOLOGY: linear
ANTI-SENSE: NO
US-08-823-895A-27

Query Match      88.9%; Score 579.6; DB 3; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;
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QY      1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGTGCGAACCCTGTAG
Db      95 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGTGCGAACCCTGTAG
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Db      155 TACACCGGAATTGCGAGAGACCGGGTCTTTCTTGTGATCAACCCGCTCAATCCTTGA
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Db      215 GATTTGGGCGTCCCGCAAGACTGCTAGCCGAGTATGTTGGTCCGAAAGGCTTGG
QY      181 TGTACTGCTGATAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG
Db      275 TGTACTGCTGATAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG
QY      241 GAGCAGCAATCTTAACTTAAAGAAAAAACAACAACAACCGCGCCGACAGGA
Db      335 GAGCAGCAATCTTAACTTAAAGAAAAAACAACAACAACCGCGCCGACAGGA
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Db      635 CGGCTCCCGCTCTAGTTGGGGTCCCGACGAGACCCCGGCTAGTGTGCTAATTTGGGTA
QY      601 GGTATGATGATACCTCTACGATGTTGTTGCGCGACCTCAAGGGATACATACCG
Db      695 GGTATGATGATACCTCTACGATGTTGTTGCGCGATCTCAAGGGATACATTCG

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; APPLICATION NUMBER: 08/240,382
; FILING DATE: 10 May 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Frazer, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00786/279001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
;
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 780 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-474-700B-45
Query Match      88.4%; Score 576.4; DB 3; Length 780;
Best Local Similarity 92.6%; Pred. No. 1,4e-152;
Matches 604; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY      1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGTGCGAACCCTGTAG
Db      104 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGTGCGAACCCTGTAG
QY      61 TACACCGGAATTGCGAGAGACCGGGTCTTTCTTGTGATCAACCCGCTCAATCCTTGA
Db      164 TACACCGGAATTGCGAGAGACCGGGTCTTTCTTGTGATCAACCCGCTCAATCCTTGA
QY      121 GATTTGGGCGTCCCGCAAGACTGCTAGCCGAGTATGTTGGTCCGAAAGGCTTGG
Db      224 GATTTGGGCGTCCCGCAAGACTGCTAGCCGAGTATGTTGGTCCGAAAGGCTTGG
QY      181 TGTACTGCTGATAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG
Db      284 TGTACTGCTGATAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG
QY      241 GAGCAGCAATCTTAACTTAAAGAAAAAACAACAACAACCGCGCCGACAGGA
Db      344 GAGCAGCAATCTTAACTTAAAGAAAAAACAACAACAACCGCGCCGACAGGA
QY      301 CGTCAAGTCCCGGCGGTGCGCAGATGTTGTGAGTCTACGTGCTACCGCGCAGGGG
Db      404 CGTCAAGTCCCGGCGGTGCGCAGATGTTGTGAGTCTACGTGCTACCGCGCAGGGG
QY      361 CCCTAGATTGGAGTGTGCGAGCGCGAGAGACTTGGAGCGGTGCAACCTCGTGGAG
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QY      421 GCGCAACCTTATTTCCAAAGAGCGCGCAACCGAGGGCAGTCTGGGCGCAACCGCGGTA
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QY      481 CCCCTGGCCCTCTATGTGTAACGAGGGCTGCGGGTGGGCAAGTNGGCTCTGTCCCTCG
Db      584 CCCCTGGCCCTCTATGTGTAACGAGGGCTGCGGGTGGGCAAGTNGGCTCTGTCCCTCG
QY      541 CGGCTCCCGCTCTAGTTGGGGTCTTACTGACCCCGCGTATGCTACGCAATTTGGGTA
Db      644 CGGCTCCCGCTCTAGTTGGGGTCTTACTGACCCCGCGTATGCTACGCAATTTGGGTA
QY      601 GGTATGATGATACCTCTACGATGTTGTTGCGCGACCTCAAGGGATACATACCG
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RESULT 13
US-08-444-818-176
; Sequence 176, Application US/08444818
; Patent No. 615087
; GENERAL INFORMATION:
; APPLICANT: Chien, David Y.

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APPLICANT: Ruter, William J.
 TITLE OF INVENTION: NANBV Diagnostics and Vaccines
 NUMBER OF SEQUENCES: 777
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: CA
 COUNTRY: USA
 ZIP: 94608-2916
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/444,818
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/403,590
 FILING DATE: 14-MAR-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Hardin, Alisha A.
 REGISTRATION NUMBER: 33,895
 REFERENCE/DOCKET NUMBER: 0110.002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (508)359-3876
 TELEFAX: (508)359-3885
 INFORMATION FOR SEQ ID NO: 176:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9379 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 345
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is A or G"
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 NAME/KEY: misc_feature
 LOCATION: 3659
 OTHER INFORMATION: /note= "A heterogeneity may exist
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 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 3669
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is G or C"
 FEATURE:
 NAME/KEY: misc_feature

LOCATION: 4146
 OTHER INFORMATION: /note= "A heterogeneity may exist
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 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 4680
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is G or A"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 9080
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is A or G"
 US-08-444-818-176
 Query Match 88.3%; Score 575.6; DB 3; Length 9379;
 Best Local Similarity 92.3%; Pred. No. 5.6e-152;
 Matches 602; Conservative 2; Mismatches 48; Indels 0; Gaps 0;
 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAACCCTGAG 60
 82 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAACCCTGAG 141
 61 TACACCGGAATTGCGAGAGACCCGCTCTTTCTTGATCAACCTGCTCATCTGGA 120
 142 TACACCGGAATTGCGAGAGACCCGCTCTTTCTTGATCAACCTGCTCATCTGGA 201
 121 GATTGGGCGTCCCGCGAAGACTGTACCCAGATGTGTGGGTGCGAAAGCCTTG 180
 202 GATTGGGCGTCCCGCGAAGACTGTACCCAGATGTGTGGGTGCGAAAGCCTTG 261
 181 TGGTACTGCTGATAGAGGTGCTTCCGAGTCCCGGAGGCTCTGTAGACCGTACCAT 240
 262 TGGTACTGCTGATAGAGGTGCTTCCGAGTCCCGGAGGCTCTGTAGACCGTACCAT 321
 241 GAGCAGCAATCTTAAACCTCAAGAAACCAAAAGAACCAACCGCCGCCACAGA 300
 322 GAGCAGCAATCTTAAACCTCAAGAAACCAAAAGAACCAACCGCCGCCACAGA 381
 301 CGTCAAGTTCCTGGGCGGTGCGCAGATCTTGTGTGAGTCTACGTGACCGGCGAGGG 360
 382 CGTCAAGTTCCTGGGCGGTGCGCAGATCTTGTGTGAGTCTACGTGACCGGCGAGGG 441
 361 CCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTTCGAGCGGTGCGAACCCTGTGGAG 420
 442 CCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTTCGAGCGGTGCGAACCCTGTGGAG 501
 421 GCGCCAACTATTCCCAAGAGCGCCGACCCGAGGCGAGTCTTGGCGGAGCCCGGATA 480
 502 ACGTCAAGCTATCCCAAGGCTGTGCGCCGAGGCGAGGACCTGAGCCCGGATA 561
 481 CCCCTGGCCCTCTATGTGTAAAGAGGCTGCGGTGCGAGTGTGCTCTGCTCCCTCG 540
 562 CCCCTGGCCCTCTATGTGTAAAGAGGCTGCGGTGCGAGTGTGCTCTGCTCCCTCG 621
 541 CGGCTCCGCTCAGATTGGGGGTCTACTGACCCCGCGGTAGGTCAAGCAATTTGGTTAA 600
 622 TGGCTTCGGCTTAGTGGGAGCCCAAGACCCCGCGGTAGGTGCGCAATTTGGTTAA 681
 601 GGTTCATGATACCTTCAAGTGTGTTGTCGCGAACCCTGATGGGTATACCG 652
 682 GGTTCATGATACCTTCAAGTGTGTTGTCGCGAACCCTGATGGGTATACCG 733
 RESULT 14
 PCT-US91-02225-9
 Sequence 9, Application PC/TUS9102225
 GENERAL INFORMATION:
 APPLICANT: HOUGHTON, MICHAEL
 APPLICANT: CHOO, OUI-LIM
 APPLICANT: KOO, GEORGE
 TITLE OF INVENTION: COMBINATIONS OF HEPATITIS C VIRUS

TITLE OF INVENTION: ANTIBODIES
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morrison & Foerster
STREET: 545 Middlefield Road, Suite 200
CITY: Menlo Park
STATE: CA
COUNTRY: USA
ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/02225
FILING DATE: 19910329
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CIOTTI, THOMAS E.
REGISTRATION NUMBER: 21,013
REFERENCE/DOCKET NUMBER: 2300-0101.44
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 327-7250
TELEFAX: (415) 327-2951
TELEX: 706141
INFORMATION FOR SEQ. ID NO.: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 9401 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
PCT-US91-02225-9

Query Match 88.3%; Score 575.6; DB 6; Length 9401;
Best Local Similarity 92.3%; Pred. No. 5.6e-152;
Matches 602; Conservative 2; Mismatches 48; Indels 0; Gaps 0;
QY 1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 60
DB 104 CGTCAGGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 163
QY 61 TACACCGGAATTGCAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATGCTTGA 120
DB 164 TACACCGGAATTGCAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATGCTTGA 223
QY 121 GATTGGGCGTGCCCGCAAGACTGCTAGCCGAGTACTGTTGGGTCCGAAAGCCCTTG 180
DB 224 GATTGGGCGTGCCCGCAAGACTGCTAGCCGAGTACTGTTGGGTCCGAAAGCCCTTG 283
QY 181 TGTACTGCTGATAGGTGCTTGGAGTGCCTCCGGAGGCTCTGTAACCGTGCACCA 240
DB 284 TGTACTGCTGATAGGTGCTTGGAGTGCCTCCGGAGGCTCTGTAACCGTGCACCA 343
QY 241 GAGCAGAACTCTTAACCTCAAGAAACCAAGAAACCAACCAACCGCCGCCACAGGA 300
DB 344 GAGCAGAACTCTTAACCTCAAGAAACCAAGAAACCAACCAACCGCCGCCACAGGA 403
QY 301 CGTCAAGTTCGCGGCGGTGCGCAGATCGTTGGTGAAGTCTTACGTTACCGCGCAGGG 360
DB 404 CGTCAAGTTCGCGGCGGTGCGCAGATCGTTGGTGAAGTCTTACGTTACCGCGCAGGG 463
QY 361 CCTGATGTTGGGTGCGCGGCGGAGGAGACTTCGAGCGGTGCGAACCCTCGTGGAG 420
DB 464 CCTGATGTTGGGTGCGCGGCGGAGGAGACTTCGAGCGGTGCGAACCCTCGTGGAG 523
QY 421 GCGCAACCTATTCACAGAGACGCGGACCCGAGGGAGGTCTGTGGGCGACCCGGGTA 480
DB 524 AGCTAGCTATCCCAAGGCTGTGCGGCCGAGGGGACAGACTTGGGCTCAGCCGGGTA 583
QY 481 CCCCTGGCCCTCTTATGTTAAAGAGGGCTGCGGGTGGCAAGGTNGGCTCTGTCCCTCG 540

DB 584 CCTTGACCCCTCTATAGCAATGAGGGCTGCGGGTGGCGGATGCTCTCTCCCG 643
QY 541 CGGCTCCCTCTCTAGTGGGTCTCTAGACCCCGCGGATGCAACGAATTGGGTA 600
DB 644 TGGCTTCGGCTTACGCTGGGGCCCAAGACCCCGCGGTAGTTCGGAATTGGGTA 703
QY 601 GGTATCATGATACCTCACTGTTGTTTCCGCGAAGCTTCAATGGGTAGATACCG 652
DB 704 GGTATCATGATACCTTACGTCGTGCGGCTTCGCGAAGCTTCAATGGGTAGATACCG 755
RESULT 15
US-08-470-426B-13
Sequence 13: Application US/08470426B
Patent No. 5856458
GENERAL INFORMATION:
APPLICANT: Okamoto, Hiroaki
TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young,
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,426B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-153402
FILING DATE: 12-JUN-1990
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/59-47083.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
INFORMATION FOR SEQ. ID NO.: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1863 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-470-426B-13
Query Match 88.3%; Score 575.4; DB 2; Length 1863;
Best Local Similarity 92.6%; Pred. No. 3.6e-152;
Matches 603; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
QY 1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCTCGGAACCGGTAG 60
DB 87 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCTCGGAACCGGTAG 146
QY 61 TACACCGGAATTGCAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATGCTTGA 120
DB 147 TACACCGGAATTGCAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATGCTTGA 206
QY 121 GATTGGGCGTGCCCGCAAGACTGCTAGCCGAGTACTGTTGGGTGCGAAAGCCCTTG 180
DB 207 GATTGGGCGTGCCCGCAAGACTGCTAGCCGAGTACTGTTGGGTGCGAAAGCCCTTG 266

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QY 181 TGGTACTGCGCTGATAGGGTGTGCGAGTGCCTGGGAGGTCTGTAGACCGTGACCAT 240
Db 267 TGGTACTGCGCTGATAGGGTGTGCGAGTGCCTGGGAGGTCTGTAGACCGTGACCAT 326
QY 241 GAGCAGCATCTTAACCTCAAGAAAAACCAAAAGAAACCAACCGCGCCCAAGGA 300
Db 327 GAGCAGCATCTCAAACTCAAGAAAAACCAAAAGAAACCAACCGTCCCAAGGA 386
QY 301 CGTCAAGTCCCGGCGGTGCGCAGATGCTGTGAGTCTACGTCGCTACCGCGCAGGGG 360
Db 387 CGTCAAGTCCCGGCGGTGCGCAGATGCTGTGAGTCTACGTCGCTACCGCGCAGGGG 446
QY 361 CCTAGATTGGGTGTGCGCGCAGCGGAGACTTCCGAGCGGTGCAACCTCGTGAG 420
Db 447 CCTAGATTGGGTGTGCGCGCAGCGGAGACTTCCGAGCGGTGCAACCTCGAGGTAG 506
QY 421 GCGCCAACTATTCCCAAGAGCGCCGACCCGAGGGCAGTCTGCGCGCAGCCCGGTA 480
Db 507 ACGTCAAGCTATCCCAAGAGTGTGCGCCGAGGGCAGGACTGCGGTCAAGCCCGGTA 566
QY 481 CCCCTGGCCCCCTTATAGGTACGAGGCTGCGGGTGGGCAAGTNGGCTCTGTCCCTCG 540
Db 567 CCCCTGGCCCCCTTATAGGTACGAGGCTGCGGGTGGGCAAGTNGGCTCTGTCCCTCG 626
QY 541 CGGCTCCCGTCTAGTGTGGGGTCTCTACTGACCCCGGCGTAGGTCAACCAATTGGGTAA 600
Db 627 TGGCTCTCGGCTTAGTGTGGGGCCCAAGGACCCCGGCGTAGGTCAACCAATTGGGTAA 686
QY 601 GGTGATCGATACCTCTCAAGTGTGNTTCCGCGACCTCATGGGGTACATACC 651
Db 687 GGTGATCGATACCTCTCAAGTGTGCGCTTCCGCGACCTCATGGGGTACATACC 737
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Search completed: January 11, 2006, 10:56:31
Job time : 159.882 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-61
Perfect score: 340
Sequence: 1 ctcaagcgtcactgaagctg.....atgcgcgcagcctcgagcc 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Issued Patents NA: *
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8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	340	100.0	340	3	US-08-836-075A-61
2	245.6	72.2	340	3	US-08-441-971-6
3	245.6	72.2	340	3	US-08-221-653-6
4	245.6	72.2	340	3	US-08-442-144A-6
5	245.6	72.2	340	3	US-08-441-970-6
6	240.8	70.8	340	3	US-08-441-971-2
7	240.8	70.8	340	3	US-08-441-971-3
8	240.8	70.8	340	3	US-08-221-653-2
9	240.8	70.8	340	3	US-08-221-653-3
10	240.8	70.8	340	3	US-08-442-144A-2
11	240.8	70.8	340	3	US-08-442-144A-3
12	240.8	70.8	340	3	US-08-441-970-2
13	240.8	70.8	340	3	US-08-441-970-3
14	240.8	70.8	1710	3	US-09-208-140-1
15	240.8	70.8	1710	3	US-09-208-140-3
16	240.8	70.8	1788	2	US-08-722-806A-1
17	240.8	70.8	1788	2	US-09-337-028-1
18	240.8	70.8	1788	2	US-09-597-877-1
19	240.8	70.8	9401	2	US-08-432-693-1
20	240.8	70.8	9416	3	US-08-811-566-19
21	240.8	70.8	9416	3	US-09-034-756-19
22	240.8	70.8	9599	3	US-09-014-416-2
23	240.8	70.8	9599	3	US-09-014-416-6
24	240.8	70.8	9646	3	US-08-811-566-1

25	240.8	70.8	9646	3	US-09-034-756-1	Sequence 1, Appli
26	240.8	70.8	10803	3	US-10-259-275-17	Sequence 17, Appli
27	240.8	70.8	12980	3	US-08-811-566-5	Sequence 5, Appli
28	240.8	70.8	12980	3	US-09-034-756-5	Sequence 5, Appli
29	239.2	70.4	340	3	US-08-441-971-1	Sequence 1, Appli
30	239.2	70.4	340	3	US-08-441-971-4	Sequence 4, Appli
31	239.2	70.4	340	3	US-08-221-653-1	Sequence 1, Appli
32	239.2	70.4	340	3	US-08-221-653-4	Sequence 4, Appli
33	239.2	70.4	340	3	US-08-442-144A-1	Sequence 1, Appli
34	239.2	70.4	340	3	US-08-442-144A-4	Sequence 4, Appli
35	239.2	70.4	340	3	US-08-441-970-1	Sequence 1, Appli
36	239.2	70.4	340	3	US-08-441-970-4	Sequence 4, Appli
37	239.2	70.4	561	2	US-07-853-985A-1	Sequence 1, Appli
38	239.2	70.4	561	2	US-07-681-703B-1	Sequence 1, Appli
39	239.2	70.4	561	2	US-08-184-236-1	Sequence 1, Appli
40	239.2	70.4	561	2	US-08-407-410B-1	Sequence 1, Appli
41	239.2	70.4	561	2	US-08-485-500-1	Sequence 1, Appli
42	239.2	70.4	561	6	PCT-US91-02370-1	Sequence 1, Appli
43	239.2	70.4	561	6	PCT-US94-04174-1	Sequence 1, Appli
44	239.2	70.4	6785	3	US-08-444-818-65	Sequence 65, Appli
45	239.2	70.4	7310	3	US-08-444-818-74	Sequence 74, Appli

ALIGNMENTS

RESULT 1
US-08-836-075A-61
Sequence 61, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-61

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 8.4e-90;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATPACCAATGCTGTGACCT 60
DB 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATPACCAATGCTGTGACCT 60
OY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
OY 121 CTGACCAATTCAAAAGGGGAGAACTGGGGCTATGGCAGATGCCGTGCGACGGGCTTT 180
DB 121 CTGACCAATTCAAAAGGGGAGAACTGGGGCTATGGCAGATGCCGTGCGACGGGCTTT 180
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DB 181 GACAACGAGCTGGCGCAACACCTCCTGCTATATCAAGGCCCTAGCAGCCTGTAGAGC 240
OY 241 TGCCAGCTCCAGAGACTGCACCATCTGCTGTGGCAGCAGCCTGTGTGATCTGCGA 300
DB 241 TGCCAGCTCCAGAGACTGCACCATCTGCTGTGGCAGCAGCCTGTGTGATCTGCGA 300
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DB 301 GAGGTAGGAGACCCGAGAGATGCGCGCAGCCTGCGAGCC 340
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RESULT 2

US-08-441-971-6

Sequence 6, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE: US/07/881.528
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n85sp2

US-08-441-971-6

Query Match 72.2%; Score 245.6; DB 3; Length 340;
Best Local Similarity 82.6%; Pred. No. 3.3e-62;
Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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OY 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATPACCAATGCTGTGACCT 60
DB 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATPACCAATGCTGTGACCT 60
OY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
OY 121 CTGACCAATTCAAAAGGGGAGAACTGGGGCTATGGCAGATGCCGTGCGACGGGCTTT 180
DB 121 CTGACCAATTCAAAAGGGGAGAACTGGGGCTATGGCAGATGCCGTGCGACGGGCTTT 180
OY 181 GACAACGAGCTGGCGCAACACCTCCTGCTATATCAAGGCCCTAGCAGCCTGTAGAGC 240
DB 181 GACAACGAGCTGGCGCAACACCTCCTGCTATATCAAGGCCCTAGCAGCCTGTAGAGC 240
OY 241 TGCCAGCTCCAGAGACTGCACCATCTGCTGTGGCAGCAGCCTGTGTGATCTGCGA 300
DB 241 TGCCAGCTCCAGAGACTGCACCATCTGCTGTGGCAGCAGCCTGTGTGATCTGCGA 300
OY 301 GAGGTAGGAGACCCGAGAGATGCGCGCAGCCTGCGAGCC 340
DB 301 GAGGTAGGAGACCCGAGAGATGCGCGCAGCCTGCGAGCC 340
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RESULT 3

US-08-221-653-6

Sequence 6, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE: US/07/881.528
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp2
US-08-221-653-6

Query Match 72.2%; Score 245.6; DB 3; Length 340;
Best Local Similarity 82.6%; Pred. No. 3.3e-62;
Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGACCT 60
DB 1 CTCAACAGTCACTGAGCGATATCCGTAAGAGAGCAATCAACATGTTGTGACT 60
QY 61 GCACCCCGAAGCAGCTGATGCAATCAAGTCTTTGACTGAAGGCTGTACGTGCGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGATGCAATCAAGTCTTTGACTGAAGGCTGTATGTTGGGGGCC 120
QY 121 CTGACCAATTCAAAAGGGAGAACTGCGCTATGCAAGATCCGTCAGCGGCTTT 180
DB 121 TCTTACCAATTCAAGGGGAGAACTGCGCTATGCAAGATCCGTCAGCGGCTTT 180
QY 181 GACAACGAGCTGCGGCAACCTCACTGCTATATCAAGGCTCTAGAGGCTGTAGAGC 240
DB 181 GACGACTGCTGTGTATATACCTCACTTGTATCAAGGCTCTAGAGGCTGTAGAGC 240
QY 241 TGCCAAGTCCAGGACTGCAACATGCTGCTGTGCGAGCAAGCTGTGCTGATCTGCGA 300
DB 241 CGCAGGGCTCCAGGACTGCAACATGCTGCTGTGCGAGCAAGCTGTGCTGATCTGCGA 300
QY 301 GAGTGTAGGAGACCCAGAGAGATGCGGCGAGCTTGCAGCC 340
DB 301 AAGTGGGGGTTCCAGAGAGAGCGGCGAGCTTGCAGCC 340

RESULT 4
US-08-442-144A-6
Sequence 6, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442.144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp2
US-08-442-144A-6

Query Match 72.2%; Score 245.6; DB 3; Length 340;
Best Local Similarity 82.6%; Pred. No. 3.3e-62;
Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGACCT 60
DB 1 CTCAACAGTCACTGAGCGATATCCGTAAGAGAGCAATCAACATGTTGTGACT 60
QY 61 GCACCCCGAAGCAGCTGATGCAATCAAGTCTTTGACTGAAGGCTGTACGTGCGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGATGCAATCAAGTCTTTGACTGAAGGCTGTATGTTGGGGGCC 120
QY 121 CTGACCAATTCAAAAGGGAGAACTGCGCTATGCAAGATCCGTCAGCGGCTTT 180
DB 121 TCTTACCAATTCAAGGGGAGAACTGCGCTATGCAAGATCCGTCAGCGGCTTT 180
QY 181 GACAACGAGCTGCGGCAACCTCACTGCTATATCAAGGCTCTAGAGGCTGTAGAGC 240
DB 181 GACGACTGCTGTGTATATACCTCACTTGTATCAAGGCTCTAGAGGCTGTAGAGC 240
QY 241 TGCCAAGTCCAGGACTGCAACATGCTGCTGTGCGAGCAAGCTGTGCTGATCTGCGA 300
DB 241 CGCAGGGCTCCAGGACTGCAACATGCTGCTGTGCGAGCAAGCTGTGCTGATCTGCGA 300
QY 301 GAGTGTAGGAGACCCAGAGAGATGCGGCGAGCTTGCAGCC 340
DB 301 AAGTGGGGGTTCCAGAGAGAGCGGCGAGCTTGCAGCC 340

RESULT 5
US-08-441-970-6
Sequence 6, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ap2
US-08-441-970-6

Query Match 72.2%; Score 245.6; DB 3; Length 340;
Best Local Similarity 82.6%; Pred. No. 3.3e-62;
Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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OY 1 CTCACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGAGCT 60
DB 1 CTCACAGTCACTGAGAGCGATATCCGTACGAGAGGCAATCTACCAATGTTGAGCT 60
OY 61 GCACCCCGAAGCAGCTGATGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGATGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
OY 121 CTTCACCAATTTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCCGTCCAGCGGCTTT 180
DB 121 CTTCACCAATTTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCCGTCCAGCGGCTTT 180
OY 181 GACAAACGAGCTGCGGCAACCCCTCACTGCTATATCAAGGCCCTAGAGAGCTGTAGAGC 240
DB 181 GACAACTGAGCTGTGTAATACCTCACTGCTATATCAAGGCCCTAGAGAGCTGTAGAGC 240
OY 241 TGCCAAGCTCCAGAGCTGCACCATCTGCTGTGGGCAACGACTGTGATCTGCGA 300
DB 241 CGCAGGGCTCCAGAGCTGCACCATCTGCTGTGGGCAACGACTGTGATCTGCGA 300
OY 301 GAGTGTAGGAGCCGAGAGATGCGGCGAGCCTGCGAGCC 340
DB 301 AAGTGGGGGTCCAGAGAGCGCGGCGAGCCTGAGAGCC 340
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RESULT 6
US-08-441-971-2
Sequence 2, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5i21
US-08-441-971-2

Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

```
OY 1 CTCACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGAGCT 60
DB 1 CTCACAGTCACTGAGAGCGATATCCGTACGAGAGGCAATTTACCAATGTTGAGCT 60
OY 61 GCACCCCGAAGCAGCTGATGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGATGCCATCAAGTCTTTGACTGAAGGCTGTACGTCGGGGGCC 120
OY 121 CTTCACCAATTTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCCGTCCAGCGGCTTT 180
DB 121 CTTCACCAATTTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCCGTCCAGCGGCTTT 180
OY 181 GACAAACGAGCTGCGGCAACCCCTCACTGCTATATCAAGGCCCTAGAGAGCTGTAGAGC 240
DB 181 GACAACTGAGCTGTGTAACCCCTCACTGCTATATCAAGGCCCTAGAGAGCTGTAGAGC 240
OY 241 TGCCAAGCTCCAGAGCTGCACCATCTGCTGTGGGCAACGACTGTGATCTGCGA 300
DB 241 CGCAGGGCTCCAGAGCTGCACCATCTGCTGTGGGCAACGACTGTGATCTGCGA 300
OY 301 GAGTGTAGGAGCCGAGAGATGCGGCGAGCCTGCGAGCC 340
DB 301 AAGTGGGGGTCCAGAGAGCGCGGCGAGCCTGAGAGCC 340
```

RESULT 7
US-08-441-971-3
Sequence 3, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5p1
US-08-441-971-3

Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
QY 1 CTCACGGTCACTGAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACT 60
DB 1 CTCACAGTCACTGAGAGCAGACATCCGTACGAGAGGCAATCTACCAATGTTGTGACT 60
QY 61 GCACCCCGAAGACGTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTCGGGGGCCC 120
DB 61 GCACCCCGAAGCCCGTGGCCATCAAGTCTTCTACAGAGGCTTTGAGTTGGGGGCCC 120
QY 121 CTTCACCAATTCAGAAAGGGAGAACTGCGGCTATGCGAGATGCGTGCAGCGGCTCTT 180
DB 121 TCTTACCAATTCAGAGGGGGAGAACTGCGGCTATGCGAGATGCGGCGAGCGGCTACT 180
QY 181 GACAACTGAGTGGGCAACACCTTCACCTGCTATATCAAGGCGCTTAGAGCCTGTAGAC 240
DB 181 GACAACTGAGTGGTGTATATACCTTCACCTGCTATCAATCAAGGCGCGGAGCCTGTGAC 240
QY 241 TGGCAAGCTCCAGAGCTGACATCACTGCTGTGTGCGGAGAGCCTGTGTGATTTGAC 300
DB 241 CGCAGGGCTCCGGGAGCTGACATCACTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
QY 301 GAGTGTAGGAGCCAGAGAGATGCGGAGAGCCTTGAGAGCC 340
DB 301 GAGTGTAGGAGCTCCAG 340

RESULT 8
US-08-221-653-2
; Sequence 2, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5i21
US-08-221-653-2

Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
QY 1 CTCACGGTCACTGAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACT 60
DB 1 CTCACAGTCACTGAGAGCAGACATCCGTACGAGAGGCAATCTACCAATGTTGTGACT 60
QY 61 GCACCCCGAAGACGTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTCGGGGGCCC 120
DB 61 GCACCCCGAAGCCCGTGGCCATCAAGTCTTCTACAGAGGCTTTGAGTTGGGGGCCC 120
QY 121 CTTCACCAATTCAGAAAGGGAGAACTGCGGCTATGCGAGATGCGTGCAGCGGCTCTT 180
DB 121 TCTTACCAATTCAGAGGGGGAGAACTGCGGCTATGCGAGATGCGGCGAGCGGCTACT 180
QY 181 GACAACTGAGTGGGCAACACCTTCACCTGCTATATCAAGGCGCTTAGAGCCTGTAGAC 240
DB 181 GACAACTGAGTGGTGTATATACCTTCACCTGCTATCAATCAAGGCGCGGAGCCTGTGAC 240
QY 241 TGGCAAGCTCCAGAGCTGACATCACTGCTGTGTGCGGAGAGCCTGTGTGATTTGAC 300
DB 241 CGCAGGGCTCCGGGAGCTGACATCACTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
QY 301 GAGTGTAGGAGCCAGAGAGATGCGGAGAGCCTTGAGAGCC 340
DB 301 AAGTGTAGGAGCTCCAG 340

QY 181 GACACAGCTGCGGCAACCTCTCACTGCTATATCAAGGCCCTAGCAGCCTGTAGAGC 240
Db 181 GACAACTAGCTGTGTGTACACCTCTACTTGTCTATCATCAAGGCCCGGCGAGCCTGTGAGC 240
QY 241 TGCCAACTCCAGAGCTGACCATGCTGTGTGTGCGAGCAGCCTGTGTGTATCTGCGA 300
Db 241 CGCAGGGCTCCAGAGCTGACCATGCTGTGTGTGTGCGAGCAGCTTATCTGTGTA 300
QY 301 GAGGTAGGACCCAGAGAGATGCGGCGAGCCTGTGCGAGCC 340
Db 301 AAGTGGGGGTCCAGAGAGAGCGGCGAGCCTGTGAGCC 340

RESULT 11

US-08-442-144A-3
Sequence 3, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5pct1
US-08-442-144A-3

Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
QY 1 CTCACGGTCACTGAAGCTGATATCCGAAGAGAGTCCATATACCAATGCTGTGACT 60
Db 1 CTCACAGTCACTGAAGAGCATCCGATCCGAGAGAGCAATCAACATGTTGTGATCT 60

QY 61 GCACCCGAAGCAGTGTAGCCATCAAGTCTTTGACTGAAGAGCTGTACGTCGGGGGCC 120
Db 61 GCACCCGAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGTTTACGTTGGGGGCC 120
QY 121 CTGACCAATTCAAAAGGGAGAACTGGGCTATTCGAGATGCCCTGACAGCGGCTT 180
Db 121 TCTTACCATTCAAGGGGGAGAACTGGGCTACCGAGGTGGCGGCGAGCGGCTTACT 180
QY 181 GACACAGCTGCGGCAACCCCTCACTGCTATATCAAGGCCCTAGCAGCCTGTAGAGC 240
Db 181 GACAACTAGCTGTGTGTATACCTCACTTGTCTATCAATCAAGGCCCGGCGAGCCTGTGAGC 240
QY 241 TGCCAACTCCAGAGCTGACCATGCTGTGTGTGCGAGCAGCCTGTGTATCTGCGA 300
Db 241 CGCAGGGCTCCAGAGCTGACCATGCTGTGTGTGTGCGAGCAGCTTATCTGTGTA 300
QY 301 GAGGTAGGACCCAGAGAGATGCGGCGAGCCTGTGCGAGCC 340
Db 301 AAGTGGGGGTCCAGAGAGAGCGGCGAGCCTGTGAGCC 340

RESULT 12

US-08-441-970-2
Sequence 2, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5i21
US-08-441-970-2

Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACCT 60
Db 1 CTCACAGTCACTGAGAGCAGATCCGTACGAGAGGCAATTTACCAATGTTGTGACCT 60
QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
Db 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
QY 121 CTTCACCAATTCAAAAGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTCTT 180
Db 121 TCTTACCAATTCAAGGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTCTT 180
QY 181 GACAACCAAGCTGCGGCAACACCTCACTGTATATCAAGGCTTACGAGCCTGTAGAGC 240
Db 181 GACAACCAAGCTGCTGTATACACCTCTCACTGTATATCAAGGCTTACGAGCCTGTAGAGC 240
QY 241 TGCCAACTCCAGAGCTGACCATGCTGCTGTGTGGCAGCACTGTGTGTATCTGCA 300
Db 241 CGCAGGGCTCCAGAGCTGACCATGCTGCTGTGTGGCAGCACTGTGTATCTGTGA 300
QY 301 GAGTGTAGGAGCCGAGAGATGCGGCGAGCCTGCGAGCC 340
Db 301 AAGTGGGGGTCCAGAGAGACGCGGAGCCTGAGAGCC 340

RESULT 13

US-08-441-970-3
; Sequence 3, Application US/08441970
; Patent No. 6297370

; GENERAL INFORMATION:

; APPLICANT: Tai-An Cha

; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

; NUMBER OF SEQUENCES: 147

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

; STREET: 600 Atlantic Avenue

; CITY: Boston

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02210

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch

; COMPUTER: IBM compatible

; OPERATING SYSTEM: MS-DOS Version 3.3

; SOFTWARE: WordPerfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/441,970

; FILING DATE: 16-MAY-1995

; CLASSIFICATION: 536

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/881,528

; FILING DATE: 08-MAY-1992

; APPLICATION NUMBER: 07/697,326

; FILING DATE: 8 May 1991

; ATTORNEY/AGENT INFORMATION:

; NAME: Janiuk, Anthony J.

; REGISTRATION NUMBER: 29,809

; REFERENCE/DOCKET NUMBER: C0772/7000

; TELEPHONE: (617) 720-3500

; TELEFAX: (617) 720-2441

; TELEX: EZEKIEL

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 340 nucleotides

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

; ORIGINAL SOURCE:

; INDIVIDUAL ISOLATE: ns5p1

US-08-441-970-3

Query Match 70.8%; Score 240.8; DB 3; Length 340;

Best Local Similarity 81.8%; Pred. No. 8.5e-61;

Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACCT 60
Db 1 CTCACAGTCACTGAGAGCAGATCCGTACGAGAGGCAATTTACCAATGTTGTGACCT 60
QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
Db 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
QY 121 CTTCACCAATTCAAAAGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTCTT 180
Db 121 TCTTACCAATTCAAGGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTCTT 180
QY 181 GACAACCAAGCTGCGGCAACACCTCACTGTATATCAAGGCTTACGAGCCTGTAGAGC 240
Db 181 GACAACCAAGCTGCTGTATACACCTCTCACTGTATATCAAGGCTTACGAGCCTGTAGAGC 240
QY 241 TGCCAACTCCAGAGCTGACCATGCTGCTGTGTGGCAGCACTGTGTGTATCTGCA 300
Db 241 CGCAGGGCTCCAGAGCTGACCATGCTGCTGTGTGGCAGCACTGTGTATCTGTGA 300
QY 301 GAGTGTAGGAGCCGAGAGATGCGGCGAGCCTGCGAGCC 340
Db 301 AAGTGGGGGTCCAGAGAGACGCGGAGCCTGAGAGCC 340

RESULT 14

US-09-208-140-1
; Sequence 1, Application US/09208140
; Patent No. 6228576

; GENERAL INFORMATION:

; APPLICANT: Del Vecchio, Alfred

; TITLE OF INVENTION: HEPATITIS C VIRUS NS5B TRUNCATED PROTEIN

; NUMBER OF SEQUENCES: 147

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Del Vecchio, Alfred

; STREET: 600 Atlantic Avenue

; CITY: Boston

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02210

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch

; COMPUTER: IBM compatible

; OPERATING SYSTEM: MS-DOS Version 3.0

; SOFTWARE: FastSeq for Windows Version 3.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/208,140

; FILING DATE: 1998-12-09

; CLASSIFICATION: 536

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/881,528

; FILING DATE: 08-MAY-1992

; APPLICATION NUMBER: 07/697,326

; FILING DATE: 8 May 1991

; ATTORNEY/AGENT INFORMATION:

; NAME: Janiuk, Anthony J.

; REGISTRATION NUMBER: 29,809

; REFERENCE/DOCKET NUMBER: C0772/7000

; TELEPHONE: (617) 720-3500

; TELEFAX: (617) 720-2441

; TELEX: EZEKIEL

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 340 nucleotides

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

; ORIGINAL SOURCE:

; INDIVIDUAL ISOLATE: ns5p1

QY 301 GAGTGTAGGGACCCAGGAGGATGGCGCAGCTGCCAGCC 340
 ||||| ||||| ||||| ||||| |||||
Db 975 AAGTCGGGGGCTCCAGGAGACGGCGCAGCTGAGAGCC 1014

RESULT 15

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US-09-208-140-3
: Sequence 3, Application US/09208140
: Patent No. 6228576
: GENERAL INFORMATION:
: APPLICANT: Del Vecchio, Alfred
: TITLE OF INVENTION: HEPATITIS C VIRUS NS5B TRUNCATED PROTEIN
: TITLE OF INVENTION: AND METHODS THEREOF TO IDENTIFY ANTIVIRAL COMPOUNDS
: FILE REFERENCE: P50743
: CURRENT APPLICATION NUMBER: US/09/208,140
: CURRENT FILING DATE: 1998-12-09
: NUMBER OF SEQ ID NOS: 34
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 3
: LENGTH: 1710
: TYPE: DNA
: ORGANISM: Viral
US-09-208-140-3

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Query Match	Score	DB	Length
70.88;	240.8;	3;	1710;

Best Local Similarity 81.85; Pred. NO. 1.5e-60;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

[illegible]

Search completed: January 11, 2006, 10:56:32
Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-63

Perfect score: 340
Sequence: 1 ntcaacagctacgcagagtg.....atccgcgannnnnnnnnn 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: Issued Patents NA.*
2: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
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7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	255.6	75.2	340	3	US-08-441-971-12
3	255.6	75.2	340	3	US-08-221-653-12
4	255.6	75.2	340	3	US-08-442-144A-12
5	255.6	75.2	340	3	US-08-441-970-12
6	246	72.4	340	3	US-08-441-971-11
7	246	72.4	340	3	US-08-221-653-11
8	246	72.4	340	3	US-08-442-144A-11
9	246	72.4	340	3	US-08-441-970-11
10	246	72.4	340	3	US-08-191-160-3
11	246	72.4	3750	3	US-08-191-160-22
12	244	71.8	340	3	US-08-836-075A-57
13	243.4	71.6	9595	3	US-09-014-416-4
14	242.8	71.4	340	3	US-08-441-971-6
15	242.8	71.4	340	3	US-08-221-653-6
16	242.8	71.4	340	3	US-08-442-144A-6
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18	242.8	71.4	340	3	US-09-878-281A-213
19	242.8	71.4	1782	3	US-09-597-877-11
20	241.2	70.9	340	3	US-08-441-971-8
21	241.2	70.9	340	3	US-08-221-653-8
22	241.2	70.9	340	3	US-08-442-144A-8
23	241.2	70.9	340	3	US-08-441-970-8
24	240.2	70.6	9413	3	US-09-827-688-6

25	239.6	70.5	340	3	US-08-441-971-10	Sequence 10, Appl
26	239.6	70.5	340	3	US-08-221-653-10	Sequence 10, Appl
27	239.6	70.5	340	3	US-08-442-144A-10	Sequence 10, Appl
28	239.6	70.5	340	3	US-08-441-970-10	Sequence 10, Appl
29	238	70.0	6189	3	US-10-259-275-41	Sequence 41, Appl
30	238	70.0	7989	3	US-09-539-601-10	Sequence 10, Appl
31	238	70.0	7992	3	US-10-005-469-1	Sequence 1, Appl
32	238	70.0	7992	3	US-10-005-469-2	Sequence 2, Appl
33	238	70.0	7992	3	US-10-005-469-4	Sequence 4, Appl
34	238	70.0	7992	3	US-10-005-469-5	Sequence 5, Appl
35	238	70.0	7992	3	US-10-005-469-6	Sequence 6, Appl
36	238	70.0	7995	3	US-10-005-469-3	Sequence 3, Appl
37	238	70.0	8001	3	US-09-539-601-7	Sequence 7, Appl
38	238	70.0	8001	3	US-09-539-601-22	Sequence 22, Appl
39	238	70.0	8001	3	US-09-539-601-28	Sequence 28, Appl
40	238	70.0	8637	3	US-09-539-601-4	Sequence 4, Appl
41	238	70.0	8638	3	US-10-029-907-6	Sequence 6, Appl
42	238	70.0	8638	3	US-10-029-907-7	Sequence 7, Appl
43	238	70.0	8638	3	US-10-029-907-24	Sequence 24, Appl
44	238	70.0	8638	3	US-10-029-907-25	Sequence 25, Appl
45	238	70.0	8638	3	US-10-309-561A-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-63
; Sequence 63, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-63

Query Match 95.9%; Score 326; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1.1e-93;
Matches 328; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 2 TCAACAGTCACTGAGTATATCCGTACAGAGGAGTCACTCCAAATGCTGATCTA 61
DB 2 TCAACAGTCACTGAGTATATCCGTACAGAGGAGTCACTCCAAATGCTGATCTA 61
QY 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGTCCC 121
DB 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGTCCC 121
QY 122 CTGCAAACTCAAAAAGGCGAAGATCGCGGCTACCGCCATGCGTCAAGGGGCTCTG 181
DB 122 CTGCAAACTCAAAAAGGCGAAGATCGCGGCTACCGCCATGCGTCAAGGGGCTCTG 181
QY 182 ACGACTAGCTGCGGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
DB 182 ACGACTAGCTGCGGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGATTGCTCAATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
DB 242 GCGAAGCTCCAGATTGCTCAATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
QY 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
DB 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
```

RESULT 2

US-08-441-971-12
Sequence 12, Application US/08441971

Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE:
APPLICATION NUMBER: US/07/881.528
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp3

US-08-441-971-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;
Best Local Similarity 86.0%; Pred. No. 2.5e-71;
Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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QY 2 TCAACAGTCACTGAGTATATCCGTACAGAGAGTCCATTCACCAATGCTGATCTA 61
DB 2 TCAACAGTCACTGAGTATATCCGTACAGAGAGTCCATTCACCAATGCTGATCTA 61
QY 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGTCCC 121
DB 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGTCCC 121
QY 122 CTGCAAACTCAAAAAGGCGAAGATCGCGGCTACCGCCATGCGTCAAGGGGCTCTG 181
DB 122 CTGCAAACTCAAAAAGGCGAAGATCGCGGCTACCGCCATGCGTCAAGGGGCTCTG 181
QY 182 ACGACTAGCTGCGGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
DB 182 ACGACTAGCTGCGGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGATTGCTCAATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
DB 242 GCGAAGCTCCAGATTGCTCAATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
QY 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
DB 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
```

RESULT 3

US-08-221-653-12
Sequence 12, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE:
APPLICATION NUMBER: US/07/881.528
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp3
US-08-221-653-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;
Best Local Similarity 86.0%; Pred. No. 2.5e-71;
Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGGATCCATCTACCAATGCTGTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTGTGAGAGATCAATCTACCAATGCTGTGATCTG 61
QY 62 GACCCCGAGGCTCGCAAGGCCATAGGTCCTCTACAGAGAGGCTTTATATCGGGGCTCCC 121
DB 62 GCGCCCGAGGCGACAGAGGCTATAGGTCGCTCAAGAGGGGCTTTATATCGGGGCTCCC 121
QY 122 CTGCAAACTCAAAAGGCGCAAACTCGGGCTACCGCGGATGCCGTGCAAGGGGCTCTG 181
DB 122 CTGCACTAATTCAAAAGGCGCAAACTCGGGCTATCGCGGATGCCGTGCAAGGGGCTCTG 181
QY 182 ACAGCTAGCTGCGGCAACCCCTCACCTGTTACATAAAGGCGAGGAGCGCTGTGAGCT 241
DB 182 ACAGCTAGCTGCGGTAATACCTTCACATGTTTACATGAGGCGCAATGCGGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGATTGCTCAATGCTGCTGTGCGGACGACCTTGTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGCTGCAACATGCTGCTGTGCGGACGACCTTGTGTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCGGTGCA 329
DB 302 AGCGCGGGGACCCCAAGAGGACGCGGCGA 329

RESULT 4
US-08-442-144A-12
Sequence 12, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442.144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp3
US-08-442-144A-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;
Best Local Similarity 86.0%; Pred. No. 2.5e-71;
Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGGATCCATCTACCAATGCTGTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTGTGAGAGATCAATCTACCAATGCTGTGATCTG 61
QY 62 GACCCCGAGGCTCGCAAGGCCATAGGTCCTCTACAGAGAGGCTTTATATCGGGGCTCCC 121
DB 62 GCGCCCGAGGCGACAGAGGCTATAGGTCGCTCAAGAGGGGCTTTATATCGGGGCTCCC 121
QY 122 CTGCAAACTCAAAAGGCGCAAACTCGGGCTACCGCGGATGCCGTGCAAGGGGCTCTG 181
DB 122 CTGCACTAATTCAAAAGGCGCAAACTCGGGCTATCGCGGATGCCGTGCAAGGGGCTCTG 181
QY 182 ACAGCTAGCTGCGGCAACCCCTCACCTGTTACATAAAGGCGAGGAGCGCTGTGAGCT 241
DB 182 ACAGCTAGCTGCGGTAATACCTTCACATGTTTACATGAGGCGCAATGCGGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGATTGCTCAATGCTGCTGTGCGGACGACCTTGTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGCTGCAACATGCTGCTGTGCGGACGACCTTGTGTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCGGTGCA 329
DB 302 AGCGCGGGGACCCCAAGAGGACGCGGCGA 329

RESULT 5
US-08-441-970-12
Sequence 12, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-441-970-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;
Best Local Similarity 86.0%; Pred. No. 2.5e-71;
Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTGTTGAGAGTCAATCTACCAATGTTGACTTG 61
QY 62 GACCCGAGGCTCGCAAGCCATTAAGTCCCTCACAGAGAGCTTTATATGCGGGCTCC 121
DB 62 GACCCGAGGCTCGCAAGCCATTAAGTCCCTCACAGAGAGCTTTATATGCGGGCTCC 121
QY 122 CTGACAACTCAAAAGGCGAGAACTGCGGCTACCGCCGATCCCGTCAAGGCGGCTCGT 181
DB 122 CTGACTAATTCAAAAGGCGAGAACTGCGGCTACCGCCGATCCCGTCAAGGCGGCTCGT 181
QY 182 ACGACTAGCTGCGGCAACCCCTCACTGTTACATAAAGCCAGGCGCACTGTGAGCT 241
DB 182 ACGACTAGCTGCGGTAATACCTTCACATGTTACCTGAAGGCCAGTCCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGATTGCTCAATGCTGTGTGCGACGACCTTGTCTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGATTGCTCAATGCTGTGTGCGACGACCTTGTCTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGTCGA 329
DB 302 AGCGGGGAGCCCAAGAGAGCGGCGCA 329

RESULT 6

US-08-441-971-11
Sequence 11, Application US/08441971

GENERAL INFORMATION:
PATENT NO. 6071693
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-441-971-11

Query Match 72.4%; Score 246; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 2.8e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTGTTGAGAGTCAATCTTACCAATGTTGACTTG 61
QY 62 GACCCGAGGCTCGCAAGCCATTAAGTCCCTCACAGAGAGCTTTATATGCGGGCTCC 121
DB 62 GACCCGAGGCTCGCAAGCCATTAAGTCCCTCACAGAGAGCTTTATATGCGGGCTCC 121
QY 122 CTGACAACTCAAAAGGCGAGAACTGCGGCTACCGCCGATCCCGTCAAGGCGGCTCGT 181
DB 122 CTGACTAATTCAAAAGGCGAGAACTGCGGCTACCGCCGATCCCGTCAAGGCGGCTCGT 181
QY 182 ACGACTAGCTGCGGCAACCCCTCACTGTTACATAAAGCCAGGCGAGCTGTGAGCT 241
DB 182 ACGACTAGCTGCGGTAATACCTTCACATGTTACCTGAAGGCCCTTGTGCGGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGATTGCTCAATGCTGTGTGCGACGACCTTGTCTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGATTGCTCAATGCTGTGTGCGACGACCTTGTCTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGTCGA 329
DB 302 AGCGGGGAGCCCAAGAGAGCGGCGCA 329

RESULT 7

US-08-221-653-11
Sequence 11, Application US/08221653

GENERAL INFORMATION:
PATENT NO. 6190864
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp1
US-08-221-653-11

Query Match 72.4%; Score 246; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 2.8e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGAGTATCCGTACAGAGAGTCCATCTCAATGCTGATCTA 61
DB 2 TCACAGTCACTGAGAGTATCCGTGTTGAGAGTCAATTTACCAATGTTGACTTG 61
QY 62 GACCCGAGGCTCGCAAGGCGCATTAAGTCCCTCAAGAGAGGCTTTATATCGGGGTC 121
DB 62 GCGCCGAGGCGCAAGGCGCATTAAGTCCCTCAAGAGAGGCGGCTGTACATCGGGGTC 121
QY 122 CTGACAACTCAAAAGGCGCAAGTCCGCGTACCGCGGCGTATCGCAAGCGGCTCTG 181
DB 122 CTGACTAATTAAGGCGCAAGTCCGCGTATCGCGGCGTATCGCGCAAGCGGCTCTG 181
QY 182 AGCACTAGTGGCGCAAGCGGCGTATCGCGTATCAATAAGGCGGCGGCGTCTG 241
DB 182 AGCACTAGTGGCGCAAGCGGCGTATCGCGTATCAATAAGGCGGCGGCGTCTG 241
QY 242 GCGAAGCTCCAGAGTTCGTCATGCTCTGTGGCGAGCAAGCTTGTCTATCTGGAG 301
DB 242 GCGAAGCTCCAGAGTTCGTCATGCTCTGTGGCGAGCAAGCTTGTCTATCTGGAG 301
QY 302 ATCGAGGGGNTCCANAGAGATCCGCGA 329
DB 302 AGCGCGGAACCCAAAGAGAGCGCGCGA 329

RESULT 8
US-08-442-144A-11
Sequence 11, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdia
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp1
US-08-442-144A-11

Query Match 72.4%; Score 246; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 2.8e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGAGTATCCGTACAGAGAGTCCATCTCAATGCTGATCTA 61
DB 2 TCACAGTCACTGAGAGTATCCGTGTTGAGAGTCAATTTACCAATGTTGACTTG 61
QY 62 GACCCGAGGCTCGCAAGGCGCATTAAGTCCCTCAAGAGAGGCTTTATATCGGGGTC 121
DB 62 GCGCCGAGGCGCAAGGCGCATTAAGTCCCTCAAGAGAGGCGGCTGTACATCGGGGTC 121
QY 122 CTGACAACTCAAAAGGCGCAAGTCCGCGTACCGCGGCGTATCGCAAGCGGCTCTG 181
DB 122 CTGACTAATTAAGGCGCAAGTCCGCGTATCGCGGCGTATCGCGCAAGCGGCTCTG 181
QY 182 AGCACTAGTGGCGCAAGCGGCGTATCGCGTATCAATAAGGCGGCGGCGTCTG 241
DB 182 AGCACTAGTGGCGCAAGCGGCGTATCGCGTATCAATAAGGCGGCGGCGTCTG 241
QY 242 GCGAAGCTCCAGAGTTCGTCATGCTCTGTGGCGAGCAAGCTTGTCTATCTGGAG 301
DB 242 GCGAAGCTCCAGAGTTCGTCATGCTCTGTGGCGAGCAAGCTTGTCTATCTGGAG 301
QY 302 ATCGAGGGGNTCCANAGAGATCCGCGA 329
DB 302 AGCGCGGAACCCAAAGAGAGCGCGCGA 329

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RESULT 9
US-08-441-970-11
; Sequence 11, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/597,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janluk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5ep1
; US-08-441-970-11

Query Match      72.4%; Score 246; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 2.8e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY      2 TCAACAGTCACAGAGTATCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
      |||
DB      2 TCACAGTCACAGAGTATCGTATGAGAGTCAATTTACCAATGTTGTACTTG 61
      |||
QY      62 GACCCGAGGCTCGCAGGCCATTAAGTTCCTCAGACAGAGAGCTTTATATCGGGGTC 121
      |||
DB      62 GCCCCGAGGCGACAGACAGGCTTAAGTCTGCTCAGACAGCGGCTGTACATCGGGGTC 121
      |||
QY      122 CTGACAACTCAAAAGGCGAAGACTCGCGCTACCGCCGATGCGCGGCAAGGCGCTCTG 181
      |||
DB      122 CTGACTAATTCAAAAGGCGAAGACTCGCGCTATCGCCGTCGCGCAAGCGGCTGCTG 181
      |||
QY      182 ACGACTAGTGGCGCAACACCTCTACCTGTATCAATAAAGGCCAGAGCCTGTGAGACT 241
      |||
DB      182 ACGACTAGTGGCGTAACACCTCTACATGTACTTGAAGGCGCTTGGCGGCTGTGAGACT 241
      |||
QY      242 GCGAAGCTCCAGATTTGCTCAATGCTGCTGTGGCGAGCAGCTTGTGCTTATCTGCGAG 301
      |||
```

```
DB      242 GCGAAGCTCCAGACTGACAGATGCTGTGTGGGATGACGACCTTGTATCTGTGAG 301
QY      302 ATGAGGGGANTCCANGAGATCGGTGA 329
      |||
DB      302 AGCGGGGAACCAAGAGGACGCGGCGA 329
      |||

RESULT 10
US-08-191-160-3
; Sequence 3, Application US/08191160
; Patent No. 6210675
; GENERAL INFORMATION:
; APPLICANT: Highfield, Peter Edmund
; APPLICANT: Rodgers, Brian Colin
; APPLICANT: Tedder, Richard Seton
; APPLICANT: Barbara, John Anthony James
; TITLE OF INVENTION: Viral Agent
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz
; STREET: 1700 K Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
; COMPUTER: IBM AT compatible
; OPERATING SYSTEM: MS-DOS V3.2
; SOFTWARE: Wordperfect 5.0 (DOS text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/191,160
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/628,516
; FILING DATE: 17 DEC 1990
; APPLICATION NUMBER: UK 89 28 562.1
; FILING DATE: 18 DEC 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 414.0
; FILING DATE: 27 FEB 1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 814.1
; FILING DATE: 03 MAR 1990
; ATTORNEY/AGENT INFORMATION:
; NAME: E. Anthony Figg
; REGISTRATION NUMBER: 27,195
; REFERENCE/DOCKET NUMBER: 1645-103A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 833-5740
; TELEFAX: (202) 833-5744
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1770 base pairs
; TYPE: nucleotide with corresponding protein
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to genomic RNA
; ORIGINAL SOURCE:
; ORGANISM: human; serum infectious for PT-NANBH
; IMMEDIATE SOURCE:
; LIBRARY: clone JG2 from cDNA library in lambda gtl1
; FEATURE:
; LOCATION: from 1 to 1770 bp portion of the PT-NANBH
; LOCATION: polyprotein
; OTHER INFORMATION: probably encodes viral non-structural
; OTHER INFORMATION: proteins
; US-08-191-160-3

Query Match      72.4%; Score 246; DB 3; Length 1770;
Best Local Similarity 84.1%; Pred. No. 5.3e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;
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Oy	2	CCAAAGATCATCGAAGATGATATCCGTACAAGAGAGTCCATCTACCAATGCTGGATCTCA	61
Dd	1282	TCMACGTCACTGAGAAATGACATCCGTGTAGAGAGTCAATTTATCAATGTTTGACTTG	1341
Oy	62	GACCCCGAGGCTCGCAGAGGCCATTAAGTCCCTCACAGAGAGGCTTTATATCGAGGATCCC	121
Dd	1342	GCCCCCGAAGCCAGACAGGCCATTAAGTGTGCTCACAGAGCGGCTTTATATCGAGGATCCC	1401
Oy	122	CTGACAAACTCAAAAGGCGAAGCTGGGAGTACCGCGATGCGTGCAGCGGCGCTCTG	181
Dd	1402	CTGACTTATTTCAAAGGGCAGAACTGCGGCTATCGCGGTGCGGCGAGCGGCGTGTG	1461
Oy	182	ACGATTAAGTGTGGCGAACACACCTCTCACTGTTTACATTAAGGCGAGGGCAGCTGTGAGCT	241
Dd	1462	ACGATTAAGTGTGGCGAATACCTCTCACTGTTTACTTTAAGGAGGCGCTGTGACGCTGTGAGCT	1521
Oy	242	GCGAAGCTTCACGAGATTGCTCAATGCTGCTGTGGCGACGACTTGTGGTTATCTGGAG	301
Dd	1522	GCAAGCTTCACGAGATGCAAGATGCTGCTGTGGCGAGCGGCTTGTGTTATCTGTAG	1581
Oy	302	ATCGAGGGAGTCCANAGAGATCCGTCA	329
Dd	1582	AGCGCGGAACCCAGAGAGACGCGGCGA	1609

RESULT 11

US-08-191-160-22
US-08-191-160-22
Sequence 22, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Flgg, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 KB storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Flgg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744
INFORMATION FOR SEQ. ID NO.: 22:
SEQUENCE CHARACTERISTICS:

```

?      LENGTH: 3750 base pairs
?      TYPE: nucleotide with corresponding protein
?      STRANDEDNESS: single
?      TOPOLOGY: linear
?      MOLECULE TYPE: cDNA to genomic RNA
?      ORIGINAL SOURCE:
?      ORGANISM: human; serum infectious for PT-NANBH
?      IMMEDIATE SOURCE:
?      LIBRARY: cDNA clones from 3' end of the genome
?      FEATURE:
?      LOCATION: from 1 to 3750 bp portion of the PT-NANBH
?      LOCATION: polypeptide
?      OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22

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Query Match	Score	DB	Length
72.4%	246	3	3750

Best Local Similarity 84.15; Pred. NO. 7.1e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

2 TCAACAGTCACTGAGAGTGATATCCGTACAGAGGAGTCCATCTACCAATGCTGTGATCTA 61

Db 3262 TCAACGCTCACTGAGATGACATCCGCTGAGAGGAGTCAATTTCATCATGTGTGACTTG 3321

62 GACCCGAGGCTCGCAAGGCCATAAGTCCCTCAGAGAGGCTTTATATCGGGGCTCCC 121

Db 3322 GCCCCGGAAGCCAGACAGGCCATAAGTTCCTCACAGAGCGGCTTATATCGGGGTCCC 3381

122 CTGACAAACTCAAAAGGGCAGAACTGGGGCTACCGCCGATGCCGTGCAGCGGCGCTCTG 181

Db
3382 CTGACTAATTCAAAAGGGCAGAACTGGGCTATGCGCGGTGCGCGCGAGCGGCGTGTGCTG 3441

182 ACGACTAGCTGCGGCACACCCCTCACCTGTTACATTAAGGCCAGGGCAAGCTGTGAGCT 241

Db
3442 ACGACTAGCTGGGTAATACCTCACATGTTACTTGAGGCTCTGCAGCCTGTGAGCT 3501

242 GCGAAGCTCCAGGATTCCTCAATGCTCGTCTGTGGCAGCACTTGTCTTATCTGGAG 301

Db 3502 GCAAGCTCCAGGACTGCACGATGCTCGTGTGCGAGACGGCTTGTCTTATCTGTGAG 3561

302 ATCGAGGGNTCCANGAGATCCGTGCA 329

RESULT 12

US-08-836-075A-57
; Sequence 57, Application US/08836075A

; Patent No. 6180768
; GENERAL INFORMATION:

```
;
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
;
```

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNO

```

; TITLE OF INVENTION: AGENTS
;
; NUMBER OF SEQUENCES: 207

```

;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: ARNOLD, WHITE & DURKEE
;

STREET: P.O. BOX 4433
CITY: HOUSTON

```

;
; STATE: TEXAS
; COUNTRY: USA

```

ZIP: 77210-4433
COMPUTER READABLE FORM:

```

;
; MEDIUM TYPE: Floppy disk
;
; COMPUTER: IBM PC compatible
;

```

```

;
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output

```

```

;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER:  US/08/836,075A

```

FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-57

Query Match 71.8%; Score 244; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 1.2e-67;
Matches 274; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
DB 2 TCGACAGTTACTGAGAACGACATTCGTCTCGAGGATCAATCTACAGTGTGTGACTTG 61
QY 62 GACCCGAGGCTCGCAGAGCCATAAGTCCCTCACAGAGAGGCTTTATATGCGGGGTCC 121
DB 62 GCCCCGAGGCGCCGAGAGCCATAAGTCCCTCACAGAGGCGCTGTATATCGGGGGTCCC 121
QY 122 CTGACAACTCAAAAGGCGACAGCTGCGGCTACCGCGATCCCGCAAGGCGGCTCGT 181
DB 122 CTACACCACTCAAAAGGCGACAGCTGCGGCTACCGCTGCGTCCGCGCAGCGGCTGCTG 181
QY 182 ACGACTAGCTCGCGCAACCCCTCACTGTTACATTAAGCGCAGGCGAGCTGTGAGCT 241
DB 182 ACTACAGCTCGCGTAATACCTTCACTGTTAAGCAAGGCGGCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGTTGCTCAATGCTGTGTGCGACGACCTTGTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGTTGCTCAATGCTGTGTGCGGAGACGACCTTGTGTTATCTGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGCGA 329
DB 302 AGTGCGRGAGTCCAGAGGATGCGCGA 329

RESULT 13

US-09-014-416-4
Sequence 4, Application US/09014416
Patent No. 6153421
GENERAL INFORMATION:
APPLICANT: Yanagii, Masaayuki
APPLICANT: Buhk, Jens
APPLICANT: Emerson, Susanne U.
APPLICANT: Purcell, Robert H.
TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
FILE REFERENCE: 20264276
CURRENT APPLICATION NUMBER: US/09/014,416
EARLIER FILING DATE: 1998-01-27
EARLIER APPLICATION NUMBER: US 60/053,062
NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 9595
TYPE: DNA
ORGANISM: Hepatitis C virus
US-09-014-416-4

Query Match 71.8%; Score 243.4; DB 3; Length 9595;
Best Local Similarity 83.8%; Pred. No. 6.8e-67;
Matches 274; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
QY 62 GACCCGAGGCTCGCAGAGCCATAAGTCCCTCACAGAGAGGCTTTATATGCGGGGTCC 121
DB 62 GCCCCGAGGCGCCGAGAGCCATAAGTCCCTCACAGAGGCGCTGTATATCGGGGGTCCC 121
QY 122 CTGACAACTCAAAAGGCGACAGCTGCGGCTACCGCGATCCCGCAAGGCGGCTCGT 181
DB 122 CTGACAACTCAAAAGGCGACAGCTGCGGCTACCGCGATCCCGCAAGGCGGCTCGT 181
QY 182 ACGACTAGCTCGCGCAACCTTCACTGTTACATTAAGCGCAGGCGAGCTGTGAGCT 241
DB 182 ACGACTAGCTCGCGTAATACCTTCACTGTTACATTAAGCGCAGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGTTGCTCAATGCTGTGTGCGGAGACCTTGTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGTTGCTCAATGCTGTGTGCGGAGACCTTGTGTTATCTGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGCGA 328
DB 302 AGTGCGRGAGTCCAGAGGATGCGCGG 329

RESULT 14

US-08-441-971-6
Sequence 6, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-May-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp2
US-08-441-971-6

Query Match 71.4%; Score 242.8; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.9e-67;
Matches 274; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 2 TCACAGTCACTGAGATGATATCCGTACAGAGAGTCAATCTACCAATGCTGTGATCTA 61
DB 2 TCTACAGTCACTGAGAGATATCCGTACAGAGAGTCAATCTACCAATGCTGTGATCTG 61
QY 62 GACCCCGAGGCTCGCAGAGCCATTAAGTCCCTCACAAGAGGCTTTATATCGGGGGTCCC 121
DB 62 GACCCCGAGGCTCGGTCATCAAGTCCCTCACAAGAGGCTTTATATGTTGGGGGCTT 121
QY 122 CTGACAACTCAAAAGGAGAGGCTACGCGGCTACCGCGGATGCCGTGCAAGGGGCTCTG 181
DB 122 CTACCAATTCAGAGGGGAGAACTGCGGCTACCGAGTCCGCGCAAGGCGGCTACTG 181
QY 182 ACAGTACGCTGCGCAACCTCTCACTGTTCATTAAGGCGAGGCGAGCTGTGAGCT 241
DB 182 ACAGTACGCTGTGTATATACCTCTCACTGTTCATTAAGGCGAGGCGAGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGTTCCTCAATGCTGTGTGGCGAGCACTTGTGTTATCTGGAG 301
DB 242 GCGAGGCTCCAGAGCTGCAACATGCTGTGTGGCGAGCACTATGTTATCTGCGAA 301
QY 302 ATCGAGGGGANTCCANGAGATCCGCGA 329
DB 302 AGTGGGGGTCCAGAGAGCGGCGA 329

RESULT 15

US-08-221-653-6
Sequence 6, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiak, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp2
US-08-221-653-6

Query Match 71.4%; Score 242.8; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.9e-67;
Matches 274; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 2 TCACAGTCACTGAGATGATATCCGTACAGAGAGTCAATCTACCAATGCTGTGATCTA 61
DB 2 TCTACAGTCACTGAGAGATATCCGTACAGAGAGTCAATCTACCAATGTTGTGACTG 61
QY 62 GACCCCGAGGCTCGCAGAGCCATTAAGTCCCTCACAAGAGGCTTTATATCGGGGGTCCC 121
DB 62 GACCCCGAGGCTCGGTCATCAAGTCCCTCACAAGAGGCTTTATATGTTGGGGGCTT 121
QY 122 CTGACAACTCAAAAGGAGAGGCTACGCGGCTACCGCGGATGCCGTGCAAGGGGCTCTG 181
DB 122 CTACCAATTCAGAGGGGAGAACTGCGGCTACCGAGTCCGCGCAAGGCGGCTACTG 181
QY 182 ACAGTACGCTGCGCAACCTCTCACTGTTCATTAAGGCGAGGCGAGCTGTGAGCT 241
DB 182 ACAGTACGCTGTGTATATACCTCTCACTGTTCATTAAGGCGAGGCGAGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGTTCCTCAATGCTGTGTGGCGAGCACTTGTGTTATCTGGAG 301
DB 242 GCGAGGCTCCAGAGCTGCAACATGCTGTGTGGCGAGCACTATGTTATCTGCGAA 301
QY 302 ATCGAGGGGANTCCANGAGATCCGCGA 329
DB 302 AGTGGGGGTCCAGAGAGCGGCGA 329

Search completed: January 11, 2006, 10:56:33
Job time : 83.331 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 201.227 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-65
Perfect score: 831
Sequence: 1 cgtgaccgcgcacatgag.....tacccgcgcataacggs 831

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
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8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	829.6	99.8	831	3	US-08-836-075A-65
2	536.8	64.6	1863	3	US-08-470-426B-14
3	535.2	64.4	9595	3	US-09-014-416-4
4	535.2	64.4	9599	3	US-09-014-416-6
5	533	64.1	2433	3	US-08-612-973-49
6	533	64.1	2433	3	US-08-927-597-49
7	533	64.1	2433	3	US-08-928-757-49
8	528.8	63.6	9413	3	US-09-827-688-6
9	527.2	63.4	2116	3	US-08-191-160-21
10	524.4	62.9	9472	3	US-08-150-204E-96
11	521.8	62.8	1539	2	US-08-470-426B-17
12	521.6	62.8	11076	3	US-09-539-601-1
13	521.6	62.8	11076	3	US-09-539-601-19
14	521.6	62.8	11076	3	US-09-539-601-25
15	521.6	62.8	11076	3	US-09-539-601-31
16	517.6	62.3	9275	3	US-10-259-275-39
17	516.6	62.2	1037	2	US-08-462-195-1
18	516.6	62.2	1037	2	US-08-462-195-3
19	516.6	62.2	1037	2	US-08-636-883-1
20	516.6	62.2	1037	2	US-08-636-883-3
21	516.6	62.2	1037	2	US-08-127-829-1
22	516.6	62.2	1037	3	US-09-127-829-3
23	516	62.1	1499	2	US-08-324-977-3
24	516	62.1	1499	2	US-08-384-616-3

25	516	62.1	1499	2	US-08-304-686A-3	Sequence 3, Appl1
26	516	62.1	1499	3	US-09-315-850-3	Sequence 3, Appl1
27	516	62.1	9416	2	US-08-324-977-1	Sequence 1, Appl1
28	516	62.1	9416	2	US-08-384-616-1	Sequence 1, Appl1
29	516	62.1	9416	2	US-08-304-686A-1	Sequence 1, Appl1
30	516	62.1	9416	3	US-09-315-850-1	Sequence 1, Appl1
31	516	62.1	9416	3	US-08-323-895A-27	Sequence 27, Appl1
32	501	60.3	1167	2	US-08-324-977-9	Sequence 9, Appl1
33	501	60.3	1167	2	US-08-384-616-9	Sequence 9, Appl1
34	501	60.3	1167	2	US-08-304-686A-9	Sequence 9, Appl1
35	501	60.3	1167	3	US-09-315-850-9	Sequence 9, Appl1
36	501	60.3	6039	2	US-08-324-977-11	Sequence 11, Appl1
37	501	60.3	6039	2	US-08-384-616-11	Sequence 11, Appl1
38	501	60.3	6039	2	US-08-304-686A-11	Sequence 11, Appl1
39	501	60.3	6039	3	US-09-315-850-11	Sequence 11, Appl1
40	501	60.3	9030	2	US-08-324-977-13	Sequence 13, Appl1
41	501	60.3	9030	2	US-08-384-616-13	Sequence 13, Appl1
42	501	60.3	9030	2	US-08-304-686A-13	Sequence 13, Appl1
43	475.2	57.2	9401	6	PCT-US91-02225-9	Sequence 9, Appl1
44	475.2	57.0	9379	3	US-08-444-818-176	Sequence 176, App

ALIGNMENTS

RESULT 1
US-08-836-075A-65
; Sequence 65, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET ID NO: INNS: 004
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-65

Query Match 99.8%; Score 829.6; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 5.6e-240;
Matches 831; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CGTAGACCGTGCACATGAGACGAACTCTAAACCTCAAGAAAAACCAACGTAACATC 60
DB 1 CGTAGACCGTGCACATGAGACGAACTCTAAACCTCAAGAAAAACCAACGTAACATC 60
QY 61 AACCCGCGCCCAAGAGAGCTCAAGTTCCCGGCGGTGCGCAGATGTCGTGAGTTTAC 120
DB 61 AACCCGCGCCCAAGAGAGCTCAAGTTCCCGGCGGTGCGCAGATGTCGTGAGTTTAC 120
QY 121 CTGTTGCGCGGAGAGGGGCTTGAATGGGTGTGCGCGGAGCTAGAGAACTTCCGAGGG 180
DB 121 CTGTTGCGCGGAGAGGGGCTTGAATGGGTGTGCGCGGAGCTAGAGAACTTCCGAGGG 180
QY 181 TCGCAACCTCGTGGAGGCGAGAGCTATCCCAAGGCTCGCCGATCCGAGGGCAGGTCC 240
DB 181 TCGCAACCTCGTGGAGGCGAGAGCTATCCCAAGGCTCGCCGATCCGAGGGCAGGTCC 240
QY 241 TGGGCTCAGCCCGGGTACCTTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 300
DB 241 TGGGCTCAGCCCGGGTACCTTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 300
QY 301 TGGCTCTGTCCCGCCATAGCTCCCGGCGCTAGTGGGGGCTTCAGAACCCCGCGTAAAG 360
DB 301 TGGCTCTGTCCCGCCATAGCTCCCGGCGCTAGTGGGGGCTTCAGAACCCCGCGTAAAG 360
QY 361 TCGCGTAATTTGGGTAAAGTATCGATACCTCTCAATGCGGCTTGCAGACTCAATGGGG 420
DB 361 TCGCGTAATTTGGGTAAAGTATCGATACCTCTCAATGCGGCTTGCAGACTCAATGGGG 420
QY 421 TACATTCGCTGTGCGGCGCCCGCTAGAGGGCGGTTCAGAGGCTTCGCGCAAGGCTTC 480
DB 421 TACATTCGCTGTGCGGCGCCCGCTAGAGGGCGGTTCAGAGGCTTCGCGCAAGGCTTC 480
QY 481 CGGAGTCTACCAAGCTACCAAGATTTGCCAATGGAGCATTTGTATGAGCGGAGAGG 540
DB 481 CGGAGTCTACCAAGCTACCAAGATTTGCCAATGGAGCATTTGTATGAGCGGAGAGG 540
QY 541 CATGATCATGATCTCCCGGGGTGCGTCCCTGCGGTAAGGTAATATCTCTCGTTG 600
DB 541 CATGATCATGATCTCCCGGGGTGCGTCCCTGCGGTAAGGTAATATCTCTCGTTG 600
QY 601 CTGGGTACCGTTTCCCGCAGCGCTGCAAGCAAGAACTAGCGTCCCACTCAGGCAAT 660
DB 601 CTGGGTACCGTTTCCCGCAGCGCTGCAAGCAAGAACTAGCGTCCCACTCAGGCAAT 660
QY 661 TCGGGAACAGCTGCACTTGTGTTGGGCGGCGCACATCTGTCTGTATGTAATGTTGG 720
DB 661 TCGGGAACAGCTGCACTTGTGTTGGGCGGCGCACATCTGTCTGTATGTAATGTTGG 720
QY 721 GGAACCTCTGTGGGTCCGTCTTCTCGTGGGCGCAATCTGTTCACCTTCAACCCCGCAANA 780
DB 721 GGAACCTCTGTGGGTCCGTCTTCTCGTGGGCGCAATCTGTTCACCTTCAACCCCGCAANA 780
QY 781 CTACAGAGTGCAGAGCTGCAATTTGTTCAATCTACCCCGGCGCATATACGGG 831
DB 781 CTACAGAGTGCAGAGCTGCAATTTGTTCAATCTACCCCGGCGCATATACGGG 831
```

RESULT 2
US-08-470-426B-14
Sequence 14, Application US/08470426B
Patent No. 5856458
GENERAL INFORMATION:

APPLICANT: Okamoto, Hiroaki
APPLICANT: Nakamura, Tetsuo
TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B

TITLE OF INVENTION: HEPATITIS VIRUS

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Beveridge, Degrandi, Wellacher & Young,

ADDRESSEE: L.L.P.

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: DC

COUNTRY: USA

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/470,426B

FILING DATE: 06-JUN-1995

CLASSIFICATION: 536

Prior APPLICATION DATA:

APPLICATION NUMBER: JP 2-153402

FILING DATE: 12-JUN-1990

ATTORNEY/AGENT INFORMATION:

NAME: Wellacher, Robert G.

REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 06/59-47083.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 1863 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: unknown

MOLECULE TYPE: DNA (genomic)

US-08-470-426B-14

Query Match 64.6%; Score 536.8; DB 2; Length 1863;
Best Local Similarity 76.4%; Pred. No. 1.7e-151;
Matches 733; Conservative 0; Mismatches 98; Indels 128; Gaps 1;

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QY 1 CGTAGACCGTGCACATGAGACGAACTCTAAACCTCAAGAAAAACCAACGTAACATC 60
DB 310 CGTAGACCGTGCACATGAGACGAACTCTAAACCTCAAGAAAAACCAACGTAACATC 369
QY 61 AACCCGCGCCCAAGAGAGCTCAAGTTCCCGGCGGTGCGCAGATGTCGTGAGTTTAC 120
DB 370 AACCCGCGCCCAAGAGAGCTCAAGTTCCCGGCGGTGCGCAGATGTCGTGAGTTTAC 429
QY 121 CTGTTGCGCGGAGAGGGGCTTGAATGGGTGTGCGCGGAGCTAGAGAACTTCCGAGGG 180
DB 430 CTGTTGCGCGGAGAGGGGCTTGAATGGGTGTGCGCGGAGCTAGAGAACTTCCGAGGG 489
QY 181 TCGCAACCTCGTGGAGGCGAGAGCTATCCCAAGGCTCGCGATTCGAGGGCAGGTCC 240
DB 490 TCGCAACCTCGTGGAGGCGAGAGCTATCCCAAGGCTCGCGATTCGAGGGCAGGTCC 549
QY 241 TGGGCTCAGCCCGGGTACCTTTGGCCCTCTATGAGCAATGAGGCAATGGTTGGGCAAGG 300
DB 241 TGGGCTCAGCCCGGGTACCTTTGGCCCTCTATGAGCAATGAGGCAATGGTTGGGCAAGG 300
QY 301 TGGGCTCAGCCCGGGTACCTTTGGCCCTCTATGAGGCAATGAGGCAATGGTTGGGCAAGG 360
DB 610 TGGGCTCAGCCCGGGTACCTTTGGCCCTCTATGAGGCAATGAGGCAATGGTTGGGCAAGG 669
QY 361 TCGGTAATTTGGGTAAAGTATCGATACCTCTCAATGCGGCTTGCAGACTCAATGGGG 420
DB 670 TCGGTAATTTGGGTAAAGTATCGATACCTCTCAATGCGGCTTGCAGACTCAATGGGG 729
QY 421 TACATTCGCTGTGCGGCGCCCGCTAGAGGGGCTTGCAGAGGCTTCG----- 468
DB 730 TATATTCCTCTGTGCGGCGCCCGCTAGAGGGGCTTGCAGAGGCTTGCAGAGGCTTC 789
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Qy	181	TCGCACCTCTGGAGGGGAGCAGGCTTATCCCAAGGCTGCGCATCTCAGAGGAGGATTC	240
Db	507	TCGCACCTCTGGAGGGGAGCAGCTTATCCCAAGGCTGCGCATCTCAGAGGAGGATTC	566
Qy	241	TGGGCTCAGCCCGGGATACCTTGGCCCTCTATGGCAATGAGGSCATGGGTTGGGCAAGG	300
Db	567	TGGGCTCAGCCCGGGATACCTTGGCCCTCTATGGCAATGAGGSCATGGGTTGGGCAAGG	626
Qy	301	TGGGCTCCTATCCCGCATATGGCTCCGGGCTGTGGGSCCCTTACAGCCCGCGGATAGG	366
Db	627	TGGGCTCCTATCCCGCATATGGCTCCGGGCTGTGGGSCCCTTACAGCCCGCGGATAGG	686
Qy	361	TCGCGTAATTTGGGTAAAGTCAATCGATACCCCTCAATGCGGCTTCCGCGACTTCATGGG	420
Db	687	TCGCGTAATTTGGGTAAAGTCAATCGATACCCCTCAATGCGGCTTCCGCGACTTCATGGG	746
Qy	421	TACATTCCGCTGTGGGCGGCCCCCTTAAAGGGGCGTTGCCAGGGCCCTG-----	468
Db	747	TACATTCCGCTGTGGGCGGCCCCCTTAAAGGGGCGGTGCCAGGGCCCTTGGCAACGAGTTC	806
Qy	469	-----	468
Db	807	CGGCTTCTGAGAGACGGCGTGAATATGCAACAGGAACTTGCCCGGTTGCTTTTCT	866
Qy	469	-----GCGC 472	
Db	867	ATCTTCCTTGGGCTCTGCTGTCGTCTTTGAACATCCAGCTTCCGCTTAAGAGTGC	926
Qy	473	AAGCTTCCGGGATCTACACGTACCAAGATTTGCCATGGGAGCATTTGCTAAG	532
Db	927	AACGTATCCGGGATTAACATGATACAGACATGCTTCAACTCAAGCATTTGCTAAG	986

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Db      987  GCAGCGGAGTGTATCATGTACTCTCCGGGTGCGTGGCCCTGTGTTACAGAGGGGTAAACGC 104
Qy      593  TCTCGTTGCTGGGTACCGTTTTCCTCCCAACGCTCGACGCAGAAATGCTAGCGTCCCACT 652
Db      1047  TCCCGTGTGGGTGTAGCGCTCACTCCCAACGCTCGCGCAGAAATGCACAGTCCCACT 110
Qy      653  CAGGCAATTCGGCGACACAGTGCACCTTGTTGTGGGGCGCGCACACTGTGTTCTGTATG 712
Db      1107  ACACAAATACAGACGCGACAGTGCACCTTGCTGTGGAAACGCTGCTTCTCTCGCTATG 116
Qy      713  TATGTGGGGGACCTCTGTGGGTCGCTTCTCGTCGCGCCAACTGTTCACCTTCACAMCC 772
Db      1167  TAGGTGGGGGAACTCTCGCGATCTATTTTCTCGTCTCCACGCTGTTCACCTTCGCGCT 1222
Qy      773  CGCGAAGACTACACAGTGCAGACGTCAATTGTTCACTTACCCCGGCCATATTAACGGG 831
Db      1227  CGCGCGCATGACAGAGTGCAGAGCTGCAACTGCTCAATCTATCCCGGCATATGATACGG 1285

RESULT 4
US-09-014-416-6
: Sequence 6, Application US/09014416
: Patent No. 6153421
: GENERAL INFORMATION:
: APPLICANT: Yanagi, Masayuki
: APPLICANT: Buhk, Jens
: APPLICANT: Emerson, Susanne U.
: APPLICANT: Purcell, Robert H.
: TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
: TITLE OF INVENTION: USFS THEREOF
: FILE REFERENCE: 20264276
: CURRENT APPLICATION NUMBER: US/09/014,416
: CURRENT FILING DATE: 1998-01-27
: EARLIER APPLICATION NUMBER: US 60/053,062
: EARLIER FILING DATE: 1997-07-18
: NUMBER OF SEQ. ID NOS: 65
: SOFTWARE: Patentln Ver. 2.1
: SEQ ID NO 6

```

LENGTH: 9599
 TYPE: DNA
 ORGANISM: Hepatitis C virus
 US-09-014-416-6

Query Match 64.4%; Score 535.2; DB 3; Length 9599;
 Best Local Similarity 76.3%; Pred. No. 1.1e-150;
 Matches 732; Conservative 0; Mismatches 99; Indels 128; Gaps 1;

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QY 1 CGTAGACCGTGCACATGACGACGATCTTAACCTCAACAAACCAACCGTAACATC 60
D 1 |||||
QY 327 CGTAGACCGTGCACATGACGACGATCTTAACCTCAACAAACCAACCGTAACATC 386
D 327 |||||
QY 61 AACGCGCGCCACAGAGAGTCCGGGCGGTGCGCAGATCGTGGAGATTAC 120
D 61 |||||
QY 387 AACGCGCGCCACAGAGAGTCCGGGCGGTGCGCAGATCGTGGAGATTAC 446
D 387 |||||
QY 121 CTGTTGCCGCGCAGAGGCGCTTAGATTGGGTGCGCGGACTAGAGACCTTCCGAGCG 180
D 121 |||||
QY 447 CTGTTGCCGCGCAGAGGCGCTTAGATTGGGTGCGCGGACTAGAGACCTTCCGAGCG 506
D 447 |||||
QY 181 TCGAACCTCGTGGAGAGCGACAGCTATCCCAAGGTCCGCGATCCGAGGAGAGTCC 240
D 181 |||||
QY 507 TCGCAACCTCGTGAAGGCGCAACCTATCCCAAGGTCCGCGATCCGAGGAGAGTCC 566
D 507 |||||
QY 241 TGGGCTCAGCCCGGAGTACCTTGGGCGCTTATGGCAATGAGGAGTGGTGGGAGAGG 300
D 241 |||||
QY 567 TGGGCTCAGCCCGGAGTACCTTGGGCGCTTATGGCAATGAGGAGTGGTGGGAGAGG 626
D 567 |||||
QY 301 TGGGCTCAGTCCCGCATGAGTCCCGGCTAGATTGGGCGCTTGAACCCCGGCGTAGG 360
D 301 |||||
QY 627 TGGGCTCAGTCCCGCATGAGTCCCGGCTAGATTGGGCGCTTGAACCCCGGCGTAGG 686
D 627 |||||
QY 361 TCGGATATTTGGGTAAGTATGATATCTCAATGCGGCTTCCGAGATCGATGGGG 420
D 361 |||||
QY 687 TCGGTAATTTGGGTAAGTATGATATCTCAATGCGGCTTCCGAGATCGATGGGG 746
D 687 |||||
QY 421 TACATTCCGCTCGTGGGCGCGCCCTTAGGGGCGGTGCGAGGCGCTG----- 468
D 421 |||||
QY 747 TACATTCCGCTCGTGGGCGCGCCCTTAGGGGCGGTGCGAGGCGCTG----- 806
D 747 |||||
QY 469 ----- 468
D 469 -----
QY 807 CGGATTCTGAGAGACGCGGTGAACATATGCAACAGGAACTTGCCGGTTCCTCTCT 866
D 807 |||||
QY 469 -----GGG 472
D 469 -----
QY 867 ATCTTCTCTTGGCTCTGCTGTCTGTGTCATCCAGCTTCGCTTATGAAGTGGC 926
D 867 |||||
QY 473 AAGGCTTCGGGATCTACACAGTCAACAGATTGTTCAATGGAGCATTTGTGATGAG 532
D 473 |||||
QY 927 AACGTGTCGGGATATACATGATCAAGAACAGATCTCAACTCAAGATTTGTATGAG 986
D 927 |||||
QY 533 GCGAAGGATGATCATCTCTCCCGGAGTGCCTGCTGCTGCTGCTGCGGAGGATATATC 592
D 533 |||||
QY 987 GCAGAGGAGCGTATCATATCTCCGGGTGCGGTGCTGTGTTCAAGAGGATATACGC 1046
D 987 |||||
QY 593 TCTGTTCTGGGTAAGCTTTTCCCGACGCTCGAGCGCAAGATGCTAGGCTCCCACT 652
D 593 |||||
QY 1047 TCCCGTTGCTGGGTAAGCTTTTCCCGACGCTCGAGCGCAAGATGCTAGGCTCCCACT 1106
D 1047 |||||
QY 653 CAGGCAATTCGCGCAGACAGTGAATGCTTGTGTTGGGGGCGCAACCTGTTGCTATG 712
D 653 |||||
QY 1107 ACGACATATACAGACCGCAAGTGAATGCTTGTGTTGGGAGCGGCTTTTGTCTCGCTATG 1166
D 1107 |||||
QY 713 TATGTGGGGAAGCTCTGTGGGTCTCTTCTCTGTGCGCAACTGTTTCACTTCAACWC 772
D 713 |||||
QY 1167 TACGTGGGGAAGCTCTGTGGGTCTCTTCTCTGTGCGCAACTGTTTCACTTCAACWC 1226
D 1167 |||||
QY 773 CGCCAGNACTACAGTGCAGAGCTGCAATTTGTTCAATTCACCCGCGCAATATACGG 831
D 773 |||||
QY 1227 CGCGGCGCATGAGACAGTGCAGAGCTGCAATTTGTTCAATTCACCCGCGCAATATACGG 1285
D 1227 |||||

```

RESULT 5

US-08-612-973-49

Sequence 49; Application US/08612973

Patent No. 6150134

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: BOSMAN, FONS

APPLICANT: DE MARTYNOFF, GUY

TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE

TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE

NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:

ADDRESSEE: NIXON & VANDERHAYE P.C.

STREET: 1100 NORTH GLOBE ROAD

CITY: ARLINGTON

STATE: VIRGINIA

COUNTRY: U.S.A.

ZIP: 22201-4714

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/612,973

FILING DATE: 11-MAR-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: BYRNE, THOMAS E.

REGISTRATION NUMBER: 32,205

REFERENCE/DOCKET NUMBER: 1487-10

TELEPHONE: (703) 816-4000

TELEFAX: (703) 816-4100

INFORMATION FOR SEQ ID NO: 49:

SEQUENCE CHARACTERISTICS:

LENGTH: 2433 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FEATURE:

NAME/KEY: CDS

LOCATION: 1..2430

NAME/KEY: mat.peptide

LOCATION: 1..2427

US-08-612-973-49

Query Match 64.4%; Score 533; DB 3; Length 2433;
 Best Local Similarity 76.8%; Pred. No. 2.6e-150;
 Matches 725; Conservative 0; Mismatches 91; Indels 128; Gaps 1;

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QY 16 ATGAGCACGAATCTTAACCTCAAGAAACCAACGTAACATCAACCGCCGCCACAG 75
D 16 |||||
QY 1 ATGAGCACGAATCTTAACCTCAAGAAACCAACGTAACATCAACCGCCGCCACAG 60
D 1 |||||
QY 76 GAGGTCAAGTTCCCGGCGGTGCGCAGATGTCGATGATGATGATGATGATGATGATG 135
D 76 |||||
QY 61 GAGGTCAAGTTCCCGGCGGTGCGCAGATGTCGATGATGATGATGATGATGATGATG 120
D 61 |||||
QY 136 GAGGTCAAGTTGAGTGTGCGCGGAGTGAAGAACTTCCAGCGGTGCAACCTCGTGG 195
D 136 |||||
QY 121 GAGGTCAAGTTGAGTGTGCGCGGAGTGAAGAACTTCCAGCGGTGCAACCTCGTGG 180
D 121 |||||
QY 196 AGGCGAAGCTTATCCCAAGAGCTGCGCGATCCGAGGCGAGGTCCTGGGCTCAGCC 255
D 196 |||||
QY 181 AGGCGAAGCTTATCCCAAGAGCTGCGCGATCCGAGGCGAGGTCCTGGGCTCAGCC 240
D 181 |||||

```

OY	256	TACCCCTGGCCCCCTCAATGGCAAGAGGGCATATGGGTTGGGCAAGGGGTGGCTTCGTCCGCC	315
Dp	241	TACCCCTGGCCCCCTCAATGGCAATGGGCAATGGGGTGGGCAAGATGGCTTCGTCAACC	300
OY	316	CATGGCTCCCGGCTTAGTTGGGGCCCTTCAGACCCCCGGGGTGGGTCCGCTAATTTGGGT	375
Dp	301	CGGGGCTCTCGGCTTAGTTGGGGCCCTTACAGACCCCCGGGCTAGTCCGCTAATTTGGGT	360
OY	376	AAGGTCAATGATACCTCTCAATGCGGGCTTTCGCCGACTCAATGGGGTACATTCGGCTGTC	435
Dp	361	AAGGTCAATGATACCTCTTACATGCGGCTTCGCCGACTCGTGGGGTACATTCGGCTGTC	420
OY	436	GGCGCCCCCTTAGGGGGGCGTTGGCAGGGGCCCTGGCGCAAGCC-----	477
Dp	421	GGCGCCCCCTTAGGGGGGCGCTGGCAGGGGCCCTGGCGCATGGCGTCCGGGTTCTGAGAGAC	480
OY	478	-----	477
Dp	481	GGCGTGAACCTATGCAACAGGGAAATTTGCCCGGTGCTCTTCTCTATCTTCTCTTGGCT	540
OY	478	-----TTCCGGGATC	487
Dp	541	TTGCTGTCTCTGTCTACCGCTTCACAGTTCCGCTTAGAAGTGGCAACGCTGCCGGATG	600
OY	488	TACCAAGTCACCAACGATTTGTTCCAAATGGAGCATTGTGTATGAGGCGGAAAGGCATGATC	547
Dp	601	TACCAATGTCACGAACGACTGCTTCCAACTCAAGACATTGTGTATGAGGCAAGCGACATGATC	660
OY	548	ATGCATCTCCCGGGTGGCTGCCCTTCGCTTCGGGAAGTAAATCTCTGTTGCTGGGTA	607
Dp	661	ATGCACACCCCGGGGCGTGGCTCCCTCCGTTCCGGGAACAACCTTCCCGCTCTGGGTA	720
OY	608	CGGTTTTCCCCACAGCGTGCAGCGAGAAATGCTAGGGTCCCACTCAAGGCATTCGAGCA	667
Dp	721	GGGCTCAACCCCAACGCTCCGCAAGTGAAGAACCCAGAGTCCCAACACACAAATACAGACG	780
OY	668	CACGTGCACTTGCTTTGTTGGGGCGGCAACACTGTCTTGTCTATGTATGTATGGGGACCTC	727
Dp	781	CACGTGCAATTTGCTGTTGGGGGCGGTGCTTCTGTTTCGGCTATGTATGATGGGGACCTC	840
OY	728	TGTGGGTCCGTCTTCTCTGTCGTGGCCAACTGTTCACTTACAMCCCGCCAGAACTACACA	787
Dp	841	TGCGGATCTGCTTCTCTGCTTCCCAAGCTGTTCAACATCTCCGCTCGCCGGCATGAGACG	900
OY	788	GTGCAAGACTGCAATTTGTCATCTACCCCGGCATATAACGGG	831
Dp	901	GTGCAAGACTGCAATTTGTCATCTATCCCGGCATATAACGGG	944

RESULT 6
 US-08-927-597-49
 ; Sequence 49, Application US/08927557
 ; Patent No. 6245303
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEBERT
 ; APPLICANT: BOSMAN, FONS
 ; APPLICANT: DE MARTYNOFF, GUY
 ; APPLICANT: BUYSE, MARIE-ANGE
 ; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 ; TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
 ; NUMBER OF SEQUENCES: 111
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: NIXON & VANDERHYE P. C.
 ; STREET: 1100 NORTH GLEBE ROAD
 ; CITY: ARLINGTON
 ; STATE: VIRGINIA
 ; COUNTRY: U.S.A.
 ; ZIP: 22201-4714
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)

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1 CURRENT APPLICATION DATA:
2 APPLICATION NUMBER: US/08/927,597
3
4 FILING DATE:
5 CLASSIFICATION:
6 PRIOR APPLICATION DATA:
7 APPLICATION NUMBER: US 08/612,973
8 FILING DATE: 11-MAR-1996
9 ATTORNEY/AGENT INFORMATION:
10 NAME: BYRNE, THOMAS E.
11 REGISTRATION NUMBER: 32,205
12 REFERENCE/DOCKET NUMBER: 1487-10
13 TELECOMMUNICATION INFORMATION:
14 TELEPHONE: (703) 816-4000
15 TELEFAX: (703) 816-4100
16 INFORMATION FOR SEQ ID NO: 49:
17 SEQUENCE CHARACTERISTICS:
18 LENGTH: 2433 base pairs
19 TYPE: nucleic acid
20 STRANDEDNESS: single
21 TOPOLOGY: linear
22 MOLECULE TYPE: cDNA
23 HYPOTHETICAL: NO
24 ANTI-SENSE: NO
25
26 FEATURE:
27 NAME/KEY: CDS
28 LOCATION: 1..2430
29
30 FEATURE:
31 NAME/KEY: mat_peptide
32 LOCATION: 1..2427
33
34 US-08-927-597-49

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Query Match	64.1%;	Score 533;	DB 3;	Length 2433;
Best Local Similarity	76.8%;	Pred. No. 2.6e-150;		
Matches 725;	Conservative	0;	Mismatches 91;	Indels 128; Gaps 1.
QY	16	ATGAGCAAGAACTCTTAACCTCAAGAAAAACAAACGTAACATCAACCGCCGCCACAG	75	
Db	1	ATGAGCAAGAACTCTTAACCTCAAGAAAAACAAACGTAACATCAACCGCCGCCACAG	60	
QY	76	GACGTCGAAGTCCCGGGCGGTGGCGAGATCGTGGGTGAAGTTTACCTGTGCCGGCGACAG	135	
Db	61	GACGTCGAAGTCCCGGGCGGTGGTCAAGATCGTGGGTGAAGTTTACCTGTGCCGGCGACAG	120	
QY	136	GGCCCTAGATTGGGTGTGCGCGCACTAGAGAACTTCGAGCGGTGCAACCTGTGGG	195	
Db	121	GGCCCCAGGTTGGGTGTGCGCGCACTAGAGAACTTCGAGCGGTGCAACCTGTGGG	180	
QY	196	AGGGAGACAGCCTTAACCCCAAGGCTCGCCGATCCGAGGGCAGGTCCTGGGCTCAGCCCGGG	255	
Db	181	AGGGAGACAACTATATCCCAAGGCTCGCCGATCCGAGGGTGAAGGCTCGAGCTCAGCCCGGG	240	
QY	256	TACCCCTTGCCCTCTATATGAGCAATGAGGGCATGAGGTTGGGCGAGGGTGGCTCTGTCCCC	315	
Db	241	TACCCCTTGCCCTCTATATGAGCAATGAGGGCATGAGGTTGGGCGAGGATGGCTCTGTCAACC	300	
QY	316	CATGGCTTCCGGCCTAGTTGGGGCCCTTCAGACCCCGGCGTAAAGTCGCGTAATTTGGGT	375	
Db	301	CGCGGCTCTCGGCTAGTTGGGGCCCTTCAGACCCCGGCGTAAAGTCGCGTAATTTGGGT	360	
QY	376	AAGGTCATCGATACCTTCACATGCGGCTTCGCCACACTCAGTGGGGTACATTCCGCTCGTC	435	
Db	361	AAGGTCATCGATACCTTCATATGCGGCTTCGCCACCTCGTGGGGTACATTCCGCTCGTC	420	
QY	436	GGCGCCCCCTCAGGGGGCGTTGGCCAGGGCCTTGGCGCAAGC-----	477	
Db	421	GGCGCCCCCTCAGGGGGCGGTGCCAGGGCCTTGGCGCATGGCGTTCGAGTTCGAGAGAC	480	
QY	478	-----	477	
Db	481	GGCGTGAACATATGCAACAGGAATTTTGCOCGGTTGCTTTCTATCTTCCTCTTGAGCT	540	
QY	478	-----TTCCGGGATC	487	

Db 541 TTGCTGTCCTGTCTGACCGTTCAGCTTCGCTTATGAAAGTGGCCAACTGTCCGGATG 600
 Qy 488 TACACGCTACCAAGATGTTTCCAAATGGAGCATTTGATGAGGGGGAAGGATGATC 547
 Db 601 TACCATGTACGAACGACTGCTCAACTCAAGCATTTGATGAGGACCGGACATGATC 660
 Qy 548 ATGCATCTCCCCGGGGTGGTCCCTGCGTTGCGGGAAGTAATATCTCTGTTGCTGGATA 607
 Db 661 ATGCACACCCCGGGGTGGTCCCTGCGTTGCGGGAAGTAATATCTCTGTTGCTGGATA 720
 Qy 608 CCGTTTTCCTCCAGCTGCGACGCAAGATGCTAGCGTCCCACTCAGGCAATTCGGGGA 667
 Db 721 GCGCTCACCCCGGCTGCGACGCTAGGAACCGCGCTCCACACGACATTAACGACGC 780
 Qy 668 CAGTCGACTGCTGTTGGGGCGGACCACTGCTGTTGCTATGATGTTGGGGGACCTC 727
 Db 781 CAGTCGATTTGCTGTTGGGGCGGCTGCTTCTGTTGCTATGATGTTGGGGGACCTC 840
 Qy 728 TGTGGTCCGCTCTTCTGTCGCGCAACTGTTCACTTTCACAMCCCGCCAGNACTACACA 787
 Db 841 TGGGATCTGTCTTCTGTCGCTCCAGCTGTTCAACATCTGCGCTCGCGCATGAGACG 900
 Qy 788 GTGCAAGACTGCAATGTTCCATCTACCCCGGCAATTAACGG 831
 Db 901 GTGCAAGACTGCAATGTTCTCAATCTATCCCGGCAATTAACGG 944

RESULT 7

US-08-928-757-49

; Sequence 49, Application US/08928757

; Patent No. 6890737

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; BOSMAN, FONS

; DE MARTINOFF, GUY

; BUYSSE, MARIE-ANGE

; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE

; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE

; NUMBER OF SEQUENCES: 111

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: NIXON & VANDERHIVE P. C.

; STREET: 1100 NORTH GLEBE ROAD

; CITY: ARLINGTON

; STATE: VIRGINIA

; COUNTRY: U.S.A.

; ZIP: 22201-4714

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/928,757

; FILING DATE: 12-Sep-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/612,973

; FILING DATE: 11-MAR-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: BYRNE, THOMAS E.

; REGISTRATION NUMBER: 32,205

; REFERENCE/DOCKET NUMBER: 1487-10

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703) 816-4000

; TELEFAX: (703) 816-4100

; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2433 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..2430
 FEATURE:
 NAME/KEY: mat_peptide
 LOCATION: 1..2427
 SEQUENCE DESCRIPTION: SEQ ID NO: 49:
 US-08-928-757-49

Query Match 64.1%; Score 533; DB 3; Length 2433;
 Best Local Similarity 76.8%; Pred. No. 2,6e-150;
 Matches 725; Conservative 0; Mismatches 91; Indels 128; Gaps 1;

Qy 16 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAAGTAACATCAACGCGCCACAG 75
 Db 1 ATGAGCAGAACTCTAAACCTCAAGAAAAACCAAGTAACATCAACGCGCCACAG 60
 Qy 76 GAGTCGAAGTTCGCGGCGGTGCGCAAGTGTGCGGAGTTTACCTGTTGCGCGCAG 135
 Db 61 GAGTCGAAGTTCGCGGCGGTGCGCAAGTGTGCGGAGTTTACCTGTTGCGCGCAG 120
 Qy 136 GCGCTTAGATTGGGTGTGCGCGGACTAGGAAGATTTCCAGCGGTGCAACTCTGTGG 195
 Db 121 GCGCTTAGATTGGGTGTGCGCGGACTAGGAAGATTTCCAGCGGTGCAACTCTGTGG 180
 Qy 196 AGGCGACAGCTATCCCAAGGCTCGCGCATCCGAGGAGGTCTGAGGCTCAGCCGAG 255
 Db 181 AGGCGACAGCTATCCCAAGGCTCGCGCATCCGAGGAGGTCTGAGGCTCAGCCGAG 240
 Qy 256 TACCTTGGCCCTCTATAGCAATGAGGCGATGGGTTGGGACAGGTTGCTCTGTCCCC 315
 Db 241 TACCTTGGCCCTCTATAGCAATGAGGCGATGGGTTGGGACAGGTTGCTCTGTCAACC 300
 Qy 316 CATGCTCCCGGCTTGTGGGCGCTTCAAGACCCCGGCTGAGTGTGCTATTTGGGT 375
 Db 301 CGGCTCTGCGCTTGTGGGCGCTTCAAGACCCCGGCTGAGTGTGCTATTTGGGT 360
 Qy 376 AAGTCATGATACCTCATCATGCGGCTTGGCGCACTCAATGAGGTAATTCGCTGTC 435
 Db 361 AAGTCATGATACCTCATCATGCGGCTTGGCGCACTCAATGAGGTAATTCGCTGTC 420
 Qy 436 GCGCGCCCTTGAAGGCGGCTTGCAGGCGCTTGGCGCAAGGCTC----- 477
 Db 421 GCGCGCCCTTGAAGGCGGCTTGCAGGCGCTTGGCGCAAGGCTC----- 460
 Qy 478 ----- 477
 Db 481 GCGGTGAAGTATGCAACAGGAAATTTGCCGTTGCTTTCTCTATCTTCTCTGCT 540
 Qy 478 ----- 487
 Db 541 TTGCTGTCCTGTCTGACCGTTCAGCTTCGCTTATGAAATGGGCAACGTGTCCGGATG 600
 Qy 488 TACACGCTACCAAGATGTTTCCAAATGGAGCATTTGATGAGGGGGAAGGATGATC 547
 Db 601 TACCATGTACGAACGACTGCTCAACTCAAGCATTTGATGAGGACCGGACATGATC 660
 Qy 548 ATGCATCTCCCCGGGGTGGTCCCTGCGTTGCGGGAAGTAATATCTCTGTTGCTGGATA 607
 Db 661 ATGCACACCCCGGGGTGGTCCCTGCGTTGCGGGAAGTAATATCTCTGTTGCTGGATA 720
 Qy 608 CCGTTTTCCTCCAGCTGCGACGCAAGATGCTAGCGTCCCACTCAGGCAATTCGGGGA 667
 Db 721 GCGCTCACCCCGGCTGCGACGCTAGGAACCGCGCTCCACACGACATTAACGACGC 780
 Qy 668 CAGTCGACTGCTGTTGGGGCGGACCACTGCTGTTGCTATGATGTTGGGGGACCTC 727
 Db 781 CAGTCGATTTGCTGTTGGGGCGGCTGCTTCTGTTGCTATGATGTTGGGGGACCTC 840
 Qy 728 TGTGGTCCGCTCTTCTGTCGCGCAACTGTTCACTTTCACAMCCCGCCAGNACTACACA 787
 Db 841 TGGGATCTGTCTTCTGTCGCTCCAGCTGTTCAACATCTGCGCTCGCGCATGAGACG 900

QY 788 GTGAGAGCTGCAATTTTCATCTACCCCGCCATATACGGG 831
Db 901 GTGAGAGCTGCAATTTTCATCTATATCCCGCCATATACGGG 944

RESULT 8

US-09-827-688-6
; Sequence 6, Application US/09827688
; Patent No. 6821955
; GENERAL INFORMATION:
; APPLICANT: ORSON, FRANK
; APPLICANT: KINSEY, BERMA
; APPLICANT: BHOAGAL, BALBIR
; TITLE OF INVENTION: MACROGAGREGATED PROTEIN CONJUGATES AS ORAL GENETIC IMMUNIZATION E
; TITLE OF INVENTION: AGENTS
; FILE REFERENCE: P01949051/10004014
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: 60/195,680
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patent version 3.0
; SEQ ID NO: 6
; LENGTH: 9413
; TYPE: DNA
; ORGANISM: HEPATITIS C
US-09-827-688-6

Query Match 63.6%; Score 528.8; DB 3; Length 9413;
Best Local Similarity 75.9%; Pred. No. 9.3e-149;
Matches 728; Conservative 0; Mismatches 103; Indels 128; Gaps 1;

QY 1 CGTAGACCGTGCACCATATAGACCAATCTTAACCTCAAGAAAAACCAACGTAACATC 60
Db 315 CGTAGACCGTGCACCATATAGACCAATCTTAACCTCAAGAAAAACCAACGTAACATC 374
QY 61 AACCGCGCCGACAGAGAGTCCCGGCGGTCAGATCGTGGAGATTAC 120
Db 375 AACCGCGCCGACAGAGAGTCCCGGCGGTCAGATCGTGGAGATTAC 434
QY 121 CTGTTCGCGCAGAGGCGCTAGATTGGGTGCGCGCATAGAGAACTTCCGAGCGG 180
Db 435 CTGTTCGCGCAGAGGCGCTAGATTGGGTGCGCGCATAGAGAACTTCCGAGCGG 494
QY 181 TCGCAACTCGTGGAGGCGACAGCTATCCCAAGCTCGCCGATCCGAGGCGAGGTGC 240
Db 495 TCGCAACTCGTGGAGGCGACAGCTATCCCAAGCTCGCCGATCCGAGGCGAGGTGC 554
QY 241 TGGGCTAGCGCGGGTACCTTGGCCCTCTATGSCAATGAGGCGATGGGTGGGCAAGG 300
Db 555 TGGGCTAGCGCGGGTACCTTGGCCCTCTATGSCAATGAGGCGATGGGTGGGCAAGG 614
QY 301 TGGCTCTGTGCCCCCATAGTGTCCGCGCTAGTTGGGCGCTTGACACCCCGCGCTAGG 360
Db 615 TGGCTCTGTGCCCCCATAGTGTCCGCGCTAGTTGGGCGCTTGACACCCCGCGCTAGG 674
QY 361 TCGCGTAATTTGGGTAGAGTATGATACCTCAATGCGGCTTGCGGACCTCAATGGGG 420
Db 675 TCGCGTAATTTGGGTAGAGTATGATACCTCAATGCGGCTTGCGGACCTCAATGGGG 734
QY 421 TACATTCGCGCTGCTGCGGCGCCCTAGGGGGCGTTGCGAGGGCGCTG----- 468
Db 735 TACATTCGCGCTGCTGCGGCGCCCTAGGGGGCGCTGCGAGGGCGCTGCGAGGTGTC 794
QY 469 ----- 468
Db 795 CGGGTTCGAGAGCGGGTGAATATGCAACAGGAAATTCGCCGGTTCCTTTCTCT 854
QY 469 -----GCCG 472
Db 855 ATCTTCCTTAGCTTGGCTGTGTGTTTGAACATCCAGCTTCGGTTAGAGGTGCGC 914

QY 473 AAGGCTTCGGGATCTACACAGTCAACCAAGATTGTTCAATGGAGCATTTGTATAG 532
Db 915 AAGGCTTCGGGATCTACACAGTCAACCAAGATTGTTCAATGGAGCATTTGTATAG 974
QY 533 GCGGAGGCAATGATCATGCTTCCTCCGGGTGGGTGCTTCGCTTGGGAGGTAATATC 592
Db 975 GCGGAGGCAATGATCATGCTTCCTCCGGGTGGGTGCTTCGCTTGGGAGGTAATATC 1034
QY 593 TCTGTGCTGGGATCGTTTCCCGAGCGTCCGAGCGAGAAATGCTAGGTCCTCACT 652
Db 1035 TCTGTGCTGGGATCGTTTCCCGAGCGTCCGAGCGAGAAATGCTAGGTCCTCACT 1094
QY 653 CAGGCAATTCGCGCAGACGTCGACTTGTGTTGGGCGGCGCACTCTGTTGCTATG 712
Db 1095 CAGGCAATTCGCGCAGACGTCGACTTGTGTTGGGCGGCGCACTCTGTTGCTATG 1154
QY 713 TATGTGGGGAACCTCTGTGGTCCGTTCTTCTGTGCGGCACTGTTCACTTCAACWC 772
Db 1155 TATGTGGGGAACCTCTGTGGTCCGTTCTTCTGTGCGGCACTGTTCACTTCAACWC 1214
QY 773 CGCGAGACTACACAGTGAAGACTGCAATTTTCCATCAACCGGCGCATATACGGG 831
Db 1215 CGCGAGACTACACAGTGAAGACTGCAATTTTCCATCAACCGGCGCATATACGGG 1273

RESULT 9

US-08-191-160-21
; Sequence 21, Application US/08191160
; Patent No. 6210675
; GENERAL INFORMATION:
; APPLICANT: Highfield, Peter Edmund
; APPLICANT: Rodgers, Brian Colin
; APPLICANT: Tedder, Richard Seton
; APPLICANT: Barbara, John Anthony James
; TITLE OF INVENTION: Viral Agent
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Rothwell, Figsy, Ernst & Kurz
; STREET: 1700 K Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
; OPERATING SYSTEM: MS-DOS V3.2
; SOFTWARE: Wordperfect 5.0 (DOS text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/191,160
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/628,516
; FILING DATE: 17 DEC 1990
; APPLICATION NUMBER: UK 89 28 562.1
; FILING DATE: 18 DEC 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 414.0
; FILING DATE: 27 FEB 1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 814.1
; FILING DATE: 03 MAR 1990
; ATTORNEY/AGENT INFORMATION:
; NAME: E. Anthony F199
; REGISTRATION NUMBER: 27,195
; REFERENCE/DOCKET NUMBER: 1645-103A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 833-5740
; TELEFAX: (202) 833-5744
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2116 base pairs

TYPE: nucleotide with corresponding protein
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA to genomic RNA
 ORIGINAL SOURCE:
 ORGANISM: human; serum infectious for PT-NANBH
 IMMEDIATE SOURCE:
 LIBRARY: cDNA clones from 5' end of the genome
 FEATURE:
 LOCATION: from 308 to 2116 bp start of the PT-NANBH
 LOCATION: polyprotein
 OTHER INFORMATION: viral structural and non-structural
 OTHER INFORMATION: proteins
 US-08-191-160-21

Query Match 63.4%; Score 527.2; DB 3; Length 2116;
 Best Local Similarity 75.8%; Pred. No. 1.4e-148;
 Matches 727; Conservative 0; Mismatches 104; Indels 128; Gaps 1;

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Qy 1 CGTAGACCGTGACCATGAGCAGCAATCTTAAACCTCAAGAAAAACCAACGTAACATC 60
Db 293 CGTAGACCGTGACCATGAGCAGCAATCTTAAACCTCAAGAAAAACCAACGTAACATC 352
Qy 61 AACCGCGCCCAAGAGAGTCAAGTCCCGGCGGTGCGCAGATCGTGGAGTTTAC 120
Db 353 AACCGCGCCCAAGAGAGTCAAGTCCCGGCGGTGCGCAGATCGTGGAGTTTAC 412
Qy 121 CTGTGTCGCGCAGAGGGGCGCTAGATGGGTGTGCGCGGAGCTAGGAAGATCCGACGG 180
Db 413 CTGTGTCGCGCAGAGGGGCGCTAGATGGGTGTGCGCGGAGCTAGGAAGATCCGACGG 472
Qy 181 TCGCAACCTCGTGGAGAGCAGACGCTATCCCAAGGCTCGCCGATCCGAGGAGGATCC 240
Db 473 TCGCAACCTCGTGGAGAGCAGACGCTATCCCAAGGCTCGCCGATCCGAGGAGGATCC 532
Qy 241 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGGCAATGAGGGCAGTGGTGG3CAGGG 300
Db 533 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGGCAATGAGGGCAGTGGTGG3CAGGG 592
Qy 301 TGGGCTCAGTCCCGGATAGGCTCCCGGCTAGTGGGGCCCTTCAGAACCCCGGCGTAA 360
Db 593 TGGGCTCAGTCCCGGATAGGCTCCCGGCTAGTGGGGCCCGCATGACCCCGGCGTAA 652
Qy 361 TCGGGAATTTGGGTAAGGTATGATACCTTCATCATGCGGCTTCGCGGACCTCATGGGG 420
Db 653 TCGGGAATTTGGGTAAGGTATGATACCTTCATCATGCGGCTTCGCGGACCTCATGGGG 712
Qy 421 TACATTCGCTGTGCGGCGCCCTCTAGGGGCGCTTGCAGGGCCCTTGGCGCAAGGC-- 477
Db 713 TACATTCGCTGTGCGGCGCTCCCTTAGGGGCGCTGCAGGGCCCTTGGCGCAATGCGTC 772
Qy 478 ----- 477
Db 773 CGGGTTCGAGGACGGCGTGAATGCAACAGGGAATTAACCGGTGCTTTTCTCT 832
Qy 478 ----- 477
Db 833 ATCTTCCTTGGCTTGGCTTGGCTTGGCTTGGCAATTCAGCTTCGCTTATGAATGGC 892
Qy 478 -----TTCCGGGATCTACACGTCACCAAGATTTGTCATTTGGAGAGATTTGTATGAG 532
Db 893 AACGATCCGGGATCTACATGTCAGAACGATTTCTCAACTCAAGATGCTGTATGACAG 952
Qy 533 CGCGAAGCATGATGATGATCATCTCCCGGGGTGCGGCTTGGCTTGGGGAAGTAAATTC 592
Db 953 ACAGGAGCATGATGATGATCAACCCCGGGGTGTGTCCTGTGTCCGGGAGGATTAATTC 1012
Qy 593 TCTCGTCTGGGATCGCGTTTCCCAAGCTCGAGCGAAGATGATAGGATCCCACT 652
Db 1013 TCCGCTCTGGGATCGCGTCACTCCACGCTCGGGCGCAAGAGCCACGATCCCACT 1072
Qy 653 CAGGCAATTCGCGCACAGTGCATTTGTTGGGGGCGGCAACTGTGTTCTGCTAATG 712
  
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Db 1073 GCGACATACAGCAGCAGCATGATTTGCTGTGGGCGGCTGCTTGTGCTCGCTAATG 1132
Qy 713 TATGTGGGGAGACCTGTGTGGGCTCGTCTTCCTGCTCGGCAACGTTTCACTTCAACATC 772
Db 1133 TAGGTGGGGATCTGTGGGATCTGTTTCTGCTCTCAAGCTTTCACTTCTGACCT 1192
Qy 773 CGCGAAGTACACAGTCAAGAGCTGCAATTTGTTCAATCAACCCCGGCGCATATACGG 831
Db 1193 CGCGAATACAGCAGGATGAGAGCTGCAATTTGTTCAATCTATCCCGGCGCATATCAG 1251
  
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RESULT 10
 US-08-150-204E-96
 Sequence 96, Application US/08150204E
 Patent No. 6538126

GENERAL INFORMATION:

APPLICANT: CHO, Doong Myung
 LEE, Yong Beom
 PARK, Young Woo
 LIM, Kook Jin
 CHOI, Deog Young
 SO, Hong Seob
 KIM, Chun Hyung
 KIM, Sung Taek
 YANG, Jae Young
 TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES
 NUMBER OF SEQUENCES: 128
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: YANG, Jae Young
 STREET: 386-1, Doryong-dong, Yuseong-gu
 CITY: Daejeon
 STATE: Daejeon
 COUNTRY: Republic of Korea
 ZIP: 305-340

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
 COMPUTER: IBM PC/pentium
 OPERATING SYSTEM: Windows
 SOFTWARE: Microsoft Word
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/150,204E

FILING DATE: 20-Apr-1994

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: KR 91-9510

FILING DATE: 10-JUN-1991

ATTORNEY/AGENT INFORMATION:

NAME: Shahan Islam, Esq.

REGISTRATION NUMBER: 32,507

REFERENCE/DOCKET NUMBER: 2695/FLK

TELEPHONE: (212) 940-8564

TELEFAX: (212) 940-8776

INFORMATION FOR SEQ ID NO: 96

SEQUENCE CHARACTERISTICS:

LENGTH: 9472 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA

FEATURE:

OTHER INFORMATION: KHCV-LBCL, Fig. 2

US-08-150-204E-96

Query Match 62.9%; Score 522.4; DB 3; Length 9472;
 Best Local Similarity 75.5%; Pred. No. 7.9e-147;
 Matches 724; Conservative 0; Mismatches 107; Indels 128; Gaps 1;

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Db      328  CGTAGACCGTGACCATGAGACGAAATCTTAAACCTCAAAAACCAACGTAACACC 387
Qy      61  AACCGCGCCCAAGAGAGCTCAAGTTCGCGGGGCGGTGGCCAGATCGTGGGAGTTTAC 120
Db      388  AACCGCGCCCAAGAGATTAATTAATTCGCGGGGCGGTGGCCAGATCGTGGGAGTTTAC 447
Qy      121  CTGTTCGCGGCAAGGGGCGCTAGATTGGGTGGCGCGAGCTAGAAAGACTTCCGAGCGG 180
Db      448  TTGTTGCGCGGCAAGGGGCGCGAGTTGGGTGGCGCGAGCTAGAAAGACTTCCGAGCGG 507
Qy      181  TCGCAACCTGTGGGAGGCGCAGACCTATCCCAAGCTGCGGATCCGAGGCGAGGTCC 240
Db      508  TCGCAACCTGTGGGAGGCGCAGACCTATCCCAAGCTGCGGATCCGAGGCGAGGCGG 567
Qy      241  TGGGCTAGCGCGGGGTAACCTTGGGCGCTCTATAGGCAATGAGGCGCATGSGTTGGGCGAGG 300
Db      568  TGGGCTAGCGCGGGGTAACCTTGGGCGCTCTATAGGCAATGAGGCGCATGSGTTGGGCGAGG 627
Qy      301  TGGGCTAGCGCGGGGTAACCTTGGGCGCTCTATAGGCGCTTGGGCGCGGCGTAAAG 360
Db      628  TGGGCTAGCGCGGGGTAACCTTGGGCGCTCTATAGGCGCGCTTGGGCGCGGCGTAAAG 687
Qy      361  TCGGTAATTTGGGTAAGGTATGATGATACCTCTCATGCGGCTTTCGCGGACTCATGAGG 420
Db      688  TCGGTAATTTGGGTAAGGTATGATGATACCTCTCATGCGGCTTTCGCGGACTCATGAGG 747
Qy      421  TACATTCGCGCTCGTGGCGCGCGCGCTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 468
Db      748  TACATTCGCGCTCGTGGCGCGCGCGCGCTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 807
Qy      469  ----- 468
Db      808  CGGCGTGTGAGAGACGCGCGTGAATATGCAACAGAGAAATCGCCCGGTTGCTTTCTCT 867
Qy      469  ----- 468
Db      868  ATCTTCCTTGGGCTGTGCTGTCTTGTGTTGACACCCCAAGTTCCGCTTATGAAGTGCGT 927
Qy      473  AAGGCTTCGCGGAGCTTCAACAGTACCAAGATTTGTTCCAAATGGAGACATTTGTATANG 532
Db      928  AAGGCTTCGCGGAGCTTCAACAGTACCAAGATTTGTTCCAAATGGAGACATTTGTATANG 987
Qy      533  GCGGAAAGGAGATCATGATCTCCCGGGGCGTGGCGGCTGCGTTCGCGGAGGATATATC 592
Db      988  GCGGAAAGGAGATCATGATCTCCCGGGGCGTGGCGGCTGCGTTCGCGGAGGATATATC 1047
Qy      593  TCTGTTGTGGGAGTACGCTTTTCCCGACGCTGCGAGCCAGAAATGTAGGTCGCCACT 652
Db      1048  TCTGTTGTGGGAGTACGCTTTTCCCGACGCTGCGAGCCAGAAATGTAGGTCGCCACT 1107
Qy      653  CAGGCAATTTGGGCGACAGTGTGATTTGTTGGGGCGGCGACACTGTGTTCTGTATG 712
Db      1108  CAGGCAATTTGGGCGACAGTGTGATTTGTTGGGGCGGCGACACTGTGTTCTGTATG 1167
Qy      713  TATGTTGGGAGGAGCTCTGTTGGGTCGCTCTCTGTCGCGCAAGCTTCACTTACATTCAGAC 772
Db      1168  TATGTTGGGAGGAGCTCTGTTGGGTCGCTCTCTGTCGCGCAAGCTTCACTTACATTCAGAC 1227
Qy      773  CGCGCAACTACACAGATGCAAGATGTCATTTTCATCTTACCCCGGCGCATATATACGG 831
Db      1228  CGCGCAACTACACAGATGCAAGATGTCATTTTCATCTTACCCCGGCGCATATATACGG 1286

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RESULT 11
US-08-470-426B-17
; Sequence 17, Application US/08470426B
; Patent No. 5856458
; GENERAL INFORMATION:
; APPLICANT: Okamoto, Hiroaki
; APPLICANT: Nakamura, Tetsuo
; TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
; TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
; TITLE OF INVENTION: HEPATITIS VIRUS

```

```

; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young,
; ADDRESSEE: L.L.P.
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,426B
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-153402
; FILING DATE: 12-JUN-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/59-47083.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1539 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; US-08-470-426B-17

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Query Match      62.8%; Score 521.8; DB 2; Length 1539;
Best Local Similarity 76.1%; Pred. No. 5,1e-147;
Matches 718; Conservative 0; Mismatches 98; Indels 128; Gaps 1;

Qy      16  ATGAGCAGCAATCTTAACTCAAGAAAAACCAAGTAACTCAACCGCCGCAAG 75
Db      1  ATGAGCAGCAATCTTAACTCAAGAAAAACCAAGTAACTCAACCGCCGCAAG 60

Qy      76  GAGGTCAAGTTCGCGGCGGTGCGAGATGTCGTTGAGTTTAACTGTTCCGCGCAGG 135
Db      61  GAGGTCAAGTTCGCGGCGGTGCGAGATGTCGTTGAGTTTAACTGTTCCGCGCAGG 120

Qy      136  GGCCTTGAATGGGATGGGCGCGGACCTAGGAAAGACTTCCGAGGCGTCCGAACCTGTTGG 195
Db      121  GGCCTTGAATGGGATGGGCGCGGACCTAGGAAAGACTTCCGAGGCGTCCGAACCTGTTGA 180

Qy      196  AGGCGACAGCTTATCCCAAGGCTCCCGATCCGAGGCGAGTCTGAGGCTCAGCCGAGG 255
Db      181  TGGCGAACAATATCCCAAGGCTCCCGATCCGAGGCGAGGCGAGGCTGAGCCCGAGG 240

Qy      256  TACCTTGGGCGCTTATGCGAATGAGGCGATGGGTTGGGCGAGGCTGCTGTTCCCG 315
Db      241  TACCTTGGGCGCTTATGCGAATGAGGCGATGGGTTGGGCGAGGCTGCTGTTCAACC 300

Qy      316  CATGGCTCCCGGCTTATGGGCGCTTCAAGACCCCGGCGTGAAGTCCGCTATTTGGGT 375
Db      301  CGCGGCTCCCGGCTTATGGGCGCTTCAAGACCCCGGCGTGAAGTCCGCTATTTGGGT 360

Qy      376  AAGGTATGATATCCCTCATATGCGGCTTTCGCGAATCATGGGATATATTCGCTGTC 435
Db      361  AAGGTATGATATCCCTCATATGCGGCTTTCGCGAATCATGGGATATATTCGCTGTC 420

Qy      436  GGGCGCCCTTATGGGCGGCTTGGCAGGCGCTG----- 468
Db      421  GGGCGCCCTTATGGGCGGCTTGGCAGGCGCTTGGCAGGCGCTTGGCAGGCGCTTGGAGAC 480

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QY 469 ----- 468
Db 481 GCGGTGAATATGCAAGAGAACTTGCCCGGTGCTCTTCTATCTTCTTGCT 540
QY 469 ----- GCGCAAGCTTTCGGGATC 487
Db 541 TTGCTGTCCTTTGACCATCCAGCTTCCGCTTATGAAGGCGCAAGTGTCCGGGATA 600
QY 488 TACCAAGCAGCAAGATGTTTCAATGGAGCAATGTGTATGAGCGGAAGGATATC 547
Db 601 TACCAATGCAAGACAGATGCTCAACTCAAGCAATGTGTATGAGGACGCGAATATC 660
QY 548 ATGATCTCCCCGGGAGCGTCCCTGCGTTGCGGAAGTAATCTGTTGCGGTA 607
Db 661 ATGATCTCTCCGGGTGCTGCTGCTTGGAGAGCAACAGTCTCCGTTGCTGGTA 720
QY 608 CCGTTTTCCTCCAGCTGCGAGCGAAGATGCTAGCGTCCCACTCAGGCAATTCGCGGA 667
Db 721 GCGCTCACTCCAGCTGCGGCGCAGAAATGCGAGGTCCTCCACTACGAAATACGAGC 780
QY 668 CAGCTCACTGCTTGTGAGGCGGCGCACTGCTTGTGATGTATGAGGAGCTC 727
Db 781 CAGCTCACTGCTGCTGAGGCGGCTGCTTGTGCTGCTATGTATGAGGAGCTC 840
QY 728 TGTGGGTCCTGCTCTGCTGCGCAACTGTTCACCTTCAACAMCCGCGCAACTACACA 787
Db 841 TGCAGATCTGTTTCTGCTGCTGCTCCAGCTGTTCACCTTCTGCTCGCGCGGATGAGCA 900
QY 788 GTGCAAGACTGCAATGTTTCAATCTACCCCGGCAATATACGG 831
Db 901 GTGCAAGACTGCAATGCTCAATCTATCCGCGCAATATACAG 944

RESULT 12
US-09-539-601-1
Sequence 1, Application US/09539601C
Patent No. 6630343
GENERAL INFORMATION:
APPLICANT: Bareneschlager, Ralf FW
TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
FILE REFERENCE: all sequences
CURRENT APPLICATION NUMBER: US/09/539,601C
EARLIER FILING DATE: 2001-08-30
EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 11076
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: 5'UTR
LOCATION: (1)..(341)
OTHER INFORMATION: construct 1389/Core-3'/wt
FEATURE:
NAME/KEY: CDS
LOCATION: (342)..(1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202)..(1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813)..(10845)
OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5b; parental sequence
FEATURE:
NAME/KEY: 3'UTR

LOCATION: (10846)..(11076)
US-09-539-601-1

Query Match 62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1,5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

QY 13 ACCATGAGCAGATCCTTAACCTCAAGAAAAACCAACGTAACATCAACCGCGCCA 72
Db 1810 ACCATGAGCAGATCCTTAACCTCAAGAAAAACCAACGTAACATCAACCGCGCCA 1869
QY 73 CAGACGTCAAGTTCCCGGCGGTGCGCAGATGCTGCTGTAATCTGTTCCGCGC 132
Db 1870 CAGACGTCAAGTTCCCGGCGGTGCGCAGATGCTGCTGTAATCTGTTCCGCGC 1929
QY 133 AGGGCCCTTAGATTTGGGTGTGCGCGCATAGGAAGCTTCCGAGCGGTGCAACTCGT 192
Db 1930 AGGGCCCTTAGATTTGGGTGTGCGCGCATAGGAAGCTTCCGAGCGGTGCAACTCGT 1989
QY 193 GGGAGCGCAGACCTATCCCAAGGCTGCGCATCCGAGGCGCAGGTCTGAGCTCAGCCC 252
Db 1990 GGAAGCGCAGACCTATCCCAAGGCTGCGCATCCGAGGCGCAGGTCTGAGCTCAGCCC 2049
QY 253 GGGTACCTTTGGCCCTCTATGCAATGAGGCGATGGGTTGGCAGGGTGCCTGCTCC 312
Db 2050 GGGTACCTTTGGCCCTCTATGCAATGAGGCGATGGGTTGGCAGGGTGCCTGCTCA 2109
QY 313 CCCCATGGCTCCCGGCTAGTTGGGGCCCTTCAGACCCCGGGGTAGTGTGCGTAATTTG 372
Db 2110 CCCCATGGCTCTCGGCTTAGTTGGGGCCCTTCAGACCCCGGGGTAGTGTGCGTAATTTG 2169
QY 373 GGTAAAGTCAATGATACCTCATCATGCGGCTTGCGCGCACTCAATGGGGTATTCGCTC 432
Db 2170 GGTAAAGTCAATGATACCTCATCATGCGGCTTGCGCGCACTCAATGGGGTATTCGCTC 2229
QY 433 GTGCGGCCCTCCCTTAGGGGCGGTTGCCAGGCGCTTGCGCAAGCTTCCGGATC----- 487
Db 2230 GTGCGGCCCTCCCTTAGGGGCGGCTTGCGCAAGGCGCTTGCGCGATGCGGTTTGAG 2289
QY 488 ----- 487
Db 2290 GACGCGTGAATATGCAAGAGGAATCTGCCGGTTGCTCTTCTATCTTCTTTTG 2349
QY 488 ----- 487
Db 2350 GCTTGGCTGTCCTTTGACCATCCAGCTTCCGCTTATGATGCGCAACGATCCGGA 2409
QY 488 ---TACCAAGTCAACCAAGATGTTTCCATGGAGACTTGTATGAGCGGAAGCATG 544
Db 2410 GTTACCATGTCACGAACGACTGCTCCAGCAAGCAATGTGTATGAGCGAGGACATG 2469
QY 545 ATCATGATCTCCCGGGGTGCGGCTGCTGCTGCGGAAGTAATCTCTCGTGTGG 604
Db 2470 ATCATGATCTCCCGGGGTGCGGCTGCTGCTGCGGAAGTAATCTCTCGTGTGG 2529
QY 605 GTACGTTTTCCTCCAGCTGCGAGCGAAGTCTAGCTGCCACTCGAGGCAATTCGG 664
Db 2530 GTACGCTCACTCCAGGCTGCGGCGCAAGAACGTAGCGTCCCACTAGAGATACGA 2589
QY 665 CGACAGTGAATGTTGTTGGGCGGCGCACTGTTCTGCTATGTATGTGGGAGC 724
Db 2590 CGCATGTCAATTTGCTGTTGGGCGGCTGCTGCTCCGCTATGTATGTGGGAGAT 2649
QY 725 CTCTGTGGTCCGCTTCTGCTGCGGCACTGTTCACCTTCACAMCCCGCGCACTAC 784
Db 2650 CTCTGTGGTCTGTTTCTGCTGCGGCACTGTTCACCTTCGCTCCCGCGCACGAG 2709
QY 785 ACAGTGAAGACTGCAATGTTTCCATCTACCCGCGCATATACGG 831
Db 2710 ACAGTGAAGACTGCAATGTTTCCATCTACCCGCGCATATACCGGCGCATACGAG 2756

RESULT 13

US-09-539-601-19
: Sequence 19, Application US/09539601C
: Patent No. 6630343
: GENERAL INFORMATION:
: APPLICANT: Barmeschlager, Ralf FW
: TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
: FILE REFERENCE: all sequences
: CURRENT APPLICATION NUMBER: US/09/539,601C
: EARLIER FILING DATE: 2001-08-30
: EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
: NUMBER OF SEQ ID NOS: 51
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 19
: LENGTH: 11076
: TYPE: DNA
: ORGANISM: Hepatitis C virus
: FEATURE:
: NAME/KEY: 5'UTR
: LOCATION: (1)..(341)
: OTHER INFORMATION: construct 1389/Core-3'/9-13F
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (342)..(1193)
: OTHER INFORMATION: hepatitis C virus core - neomycin
: OTHER INFORMATION: phosphotransferase fusion protein
: FEATURE:
: NAME/KEY: RBS
: LOCATION: (1202)..(1812)
: OTHER INFORMATION: internal ribosome entry site from
: OTHER INFORMATION: encephalomyocarditis virus
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1813)..(10845)
: OTHER INFORMATION: hepatitis C virus polyprotein from core to
: OTHER INFORMATION: nonstructural protein NS5B; carries cell
: OTHER INFORMATION: culture-adaptive mutations from clone 9-13F
: FEATURE:
: NAME/KEY: 3'UTR
: LOCATION: (10846)..(11076)
: US-09-539-601-19

Query Match 62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1.5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

QY 13 ACCATGAGCAGAACTCTAAACCTCAAGAAACCAAAAGTAACATCAACCGCCGCCA 72
DB 1810 ACCATGAGCAGAACTCTAAACCTCAAGAAACCAAAAGTAACATCAACCGCCGCCA 1869

QY 73 CAGACGTCAGATCCCGGGGGGTGGCCAGATCGTCGGTGAAGTTACCTGTCGCCGQC 132
DB 1870 CAGACGTCAGATCCCGGGGGGTGGCCAGATCGTCGGTGAAGTTACCTGTCGCCGQC 1929

QY 133 AGGGGCGCTAGATGGGTGTGCGCGCACTAGAGAACTTCCGAGCGGTCCCAACTCTGT 192
DB 1930 AGGGGCGCTAGATGGGTGTGCGCGCACTAGAGAACTTCCGAGCGGTCCCAACTCTGT 1989

QY 193 GGAAGGCGACAGCTATCCCAAGGCTCGCGATCCGAGGAGGAGGCTCTGAGGCC 252
DB 1990 GGAAGGCGACAGCTATCCCAAGGCTCGCGATCCGAGGAGGAGGCTCTGAGGCC 2049

QY 253 GGGTACCTTGGCCCTCTATAGGCAATGAGGCAATGGGTTGGGCAAGGTTGCTCTGTGC 312
DB 2050 GGGTACCTTGGCCCTCTATAGGCAATGAGGCAATGGGTTGGGCAAGGTTGCTCTGTGC 2109

QY 313 CCCCATGGCTCCCGGCTAGTTGGGGCCCTTCAGACCCCGCGTAAAGGTGCGTAAATTTG 372
DB 2110 CCCCATGGCTCCCGGCTAGTTGGGGCCCGCAAGACCCCGCGTAAAGGTGCGTAAATTTG 2169

QY 373 GGTAAAGTCATGATACCTTCAATGCGGGCTTCCGCACTCATAGGGGTACATTTCCGCTC 432
DB 2170 GGTAAAGTCATGATACCTTCAATGCGGGCTTCCGCACTCATAGGGGTACATTTCCGCTC 2229

QY 433 GTGCGCGCCCGCTAGAGGGGCGTTGCCAGGGCCCTGCGCAAGGCTTCCGGGATC----- 487
DB 2230 GTGCGCGCCCGCTAGAGGGGCGTTGCCAGGGCCCTGCGCAAGGCTTCCGGGATC----- 2289

QY 488 ----- 487
DB 2290 GAGGCGTGAATATGCAACAGGGAATCTCCCGGTTGCTCTTTCTATCTTCTTTTG 2349

QY 488 ----- 487
DB 2350 GCTTTGCTGCTGTTTGAACATCCAGCTTCCGCTTATGAAGTGCAGAACATATCCGA 2409

QY 488 ---TACCAGCTCAACCAAGATTTGTTCCATGAGAGCATTTGATAGGCGGAAGCATG 544
DB 2410 GTGACCATGTCAAGAACAGCTGCTCAACGACGATTTGTATAGGACGCGGACATG 2469

QY 545 ATCATGATCTCCCGGGGCGTGCCTGCGTTGCGGAGATATATCTCTGTTGCTG 604
DB 2470 ATCATGATACCCCGGGGCGTGCCTGCGTTGCGGAGAACATCTCTCCGCTGCTG 2529

QY 605 GTACCGTTTCCCGCAAGCTGCGACGCGAGGAATGCTAGCTCCCACTCAAGCAATTCCG 664
DB 2530 GTACCGCTCACTCCACGCTGCGGCGAGAGCGTAGCGTCCCACTCAAGCAATACGA 2589

QY 665 CGACAGCTGACATTGTTGGGGGCGGCACTCTGTTCTGCTATGATAGTGGGGAC 724
DB 2590 CGCATGTCAATTTGCTGTTGGGGGCGGCTGCTCTGCTCCGCTATGATAGTGGAGAT 2649

QY 725 CTCTGTTGGTCCGCTCTCTGTCGCGCACTGTTCACTTCAACAMCCCGCAAGTAC 784
DB 2650 CTCTGTTGGTCCGCTCTCTGTCGCGCGGCTGCTCTGCTCCGCTATGATAGTGGAGAT 2709

QY 785 ACAATGCAAGCTGCAATTTGTTCAATCTACCCCGGCAATTAACGG 831
DB 2710 ACAATGCAAGCTGCAATTTGTTCAATCTACCCCGGCAATTAACGG 2756

RESULT 14
US-09-539-601-25
: Sequence 25, Application US/09539601C
: Patent No. 6630343
: GENERAL INFORMATION:
: APPLICANT: Barmeschlager, Ralf FW
: TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
: FILE REFERENCE: all sequences
: CURRENT APPLICATION NUMBER: US/09/539,601C
: EARLIER FILING DATE: 2001-08-30
: EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
: NUMBER OF SEQ ID NOS: 51
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 25
: LENGTH: 11076
: TYPE: DNA
: ORGANISM: Hepatitis C virus
: FEATURE:
: NAME/KEY: 5'UTR
: LOCATION: (1)..(341)
: OTHER INFORMATION: construct 1389/Core-3'/5.1
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (342)..(1193)
: OTHER INFORMATION: hepatitis C virus core - neomycin
: OTHER INFORMATION: phosphotransferase fusion protein
: FEATURE:
: NAME/KEY: RBS
: LOCATION: (1202)..(1812)
: OTHER INFORMATION: internal ribosome entry site from
: OTHER INFORMATION: encephalomyocarditis virus
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1813)..(10845)

OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5B; carries cell
OTHER INFORMATION: culture-adaptive mutations of clone 5.1
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846)..(11076)
US-09-539-601-25

Query Match 62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1.5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

13 ACCATGAGCAGAACTCTTAACTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 72
1810 ACCATGGCAGAACTCTTAACTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 1869
73 CAGACGTCAAGTTCCCGGCGGTGGCCAGATCGTGGTGAATTACCTGTGCGCGC 132
1870 CAGACGTCAAGTTCCCGGCGGTGGCCAGATCGTGGTGAATTACCTGTGCGCGC 1929
133 AGGGGCGCTAGATTGGGTGGCGGCGGACCTAGGAAGACTTCCAGCGGTGCGCACTCTGT 192
1930 AGGGGCGCTAGATTGGGTGGCGGCGGACCTAGGAAGACTTCCAGCGGTGCGCACTCTGT 1989
193 GGGAGGCGACAGCTATCCCAAGGCTGCGGATCCAGGCGAGGCTCTGGGCTCAGGCC 252
1990 GGAAGGCGACAACTATCCCAAGGCTGCGGATCCAGGCGAGGCTCTGGGCTCAGGCC 2049
253 GGGTACCTTGGGCGCTCTATAGGCAATAGGCGATGGGTTGGCGAGGGTGGCTCTGTGC 312
2050 GGGTACCTTGGGCGCTCTATAGGCAATAGGCGATGGGTTGGCGAGGGTGGCTCTGTGC 2109
313 CCCCAGGCTCCCGGCGCTAGTTGGGCGCTTCAGACCCCGGCGGATGGTTCGCTAATTG 372
2110 CCCCAGGCTCCCGGCGCTAGTTGGGCGCTTCAGACCCCGGCGGATGGTTCGCTAATTG 2169
373 GGTAAAGTCATGATACCTCAATGCGGCTTCCGCGAATGAGGGTACATTCCTGCTC 432
2170 GGTAAAGTCATGATACCTCAATGCGGCTTCCGCGAATGAGGGTACATTCCTGCTC 2229
433 GTGGGCGGCGGCTTGGGCGGCTTCCAGGCGCTTGGCGCAAGGTTCCGGGATC----- 487
2230 GTGGGCGGCGGCTTGGGCGGCTTCCAGGCGCTTGGCGCAAGGTTCCGGGATC----- 2289
488 ----- 487
2290 GACGCGGTGAACATATGCAACAGGAATCTGCCGGTCTCTTTTCTAATCTCTTTTG 2349
488 ----- 487
2350 GCTTGTCTGCTCTGTGACATCCAGCTTCCGCTTATGAAGTCCGCAAGTATCCGGA 2409
488 ---TACACGTCAACAAAGATTTTCCAAATGAGAGATTTGTATGAGCGGAAGGCTG 544
2410 GTGAACCAATGTCAGAAAGACTGCTCAACCAACATTTGTATGAGGAGCGGACATG 2469
545 ATCAATGATCTCCCGGCGGCTGCGCTGCGTTCCGGAAGATATATCTCTGTTGCTG 604
2470 ATCAATGATCTCCCGGCGGCTGCGCTGCGTTCCGGAAGATATATCTCTGTTGCTG 2529
605 GTACCGTTTCCCGGCGGCTGCGGACGAGAAATGCTAGCGTCCCACTCAGGCAATTCG 664
2510 GTACCGTTTCCCGGCGGCTGCGGACGAGAAATGCTAGCGTCCCACTCAGGCAATTCG 2589
665 CGACAGTCGATCTGTTGTTGGGCGGCGACACTCTGTTCTGCTATGTAATGTGGGAGC 724
2590 CGCATGTCGATTTGCTGTTGGGCGGCGGCTGCTCTGCTCGCTATATGATGTGGAGAT 2649
725 CTCTGTGGTCCGCTTCTCTGCTGGGCAAGCTGTTCACTTCAACWCCGCGCAGNACTAC 784
2650 CTCTGTGGTCCGCTTCTCTGCTGGGCAAGCTGTTCACTTCAACWCCGCGCGGAGCAG 2709
785 ACAGTGAAGACTGCAATTTGTTCAATCTTACCCCGGCAATATTAACGG 831

Db 2710 ACAGTGAAGACTGCAATTTGTTCAATCTTACCCCGGCAATATTAACGG 2756

RESULT 15
US-09-539-601-31
Sequence 31, Application US/09539601C
Patent No. 6630343
GENERAL INFORMATION:
APPLICANT: Bartschlagel, Ralf FW
TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
FILE REFERENCE: all sequences
CURRENT APPLICATION NUMBER: US/09/539,601C
EARLIER FILING DATE: 2001-08-30
EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 31
LENGTH: 11076
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: 5'UTR
LOCATION: (1)..(341)
OTHER INFORMATION: construct I389/Core-3'/19
FEATURE:
NAME/KEY: CDS
LOCATION: (342)..(1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202)..(1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813)..(10845)
OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5B; carries cell culture
OTHER INFORMATION: adaptive mutations from clone no. 19
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846)..(11076)
US-09-539-601-31

Query Match 62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1.5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

13 ACCATGAGCAGAACTCTTAACTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 72
1810 ACCATGGCAGAACTCTTAACTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 1869
73 CAGACGTCAAGTTCCCGGCGGTGGCCAGATCGTGGTGAATTACCTGTGCGCGC 132
1870 CAGACGTCAAGTTCCCGGCGGTGGCCAGATCGTGGTGAATTACCTGTGCGCGC 1929
133 AGGGGCGCTAGATTGGGTGGCGGCGGACCTAGGAAGACTTCCGAGCGGTGCGCACTCTGT 192
1930 AGGGGCGCTAGATTGGGTGGCGGCGGACCTAGGAAGACTTCCGAGCGGTGCGCACTCTGT 1989
193 GGGAGGCGACAGCTATCCCAAGGCTGCGCGATTCGAGGGCGAGGTCCTGGGCTCAGCCC 252
1990 GGAAGGCGACAACTATCCCAAGGCTGCGCGACGCCCAAGGATAGGCTTGGGCTCAGCCC 2049
253 GGGTACCTTGGGCGCTCTATAGGCAATAGGCGATGGGTTGGCGAGGGTGGCTCTGTGC 312
2050 GGGTACCTTGGGCGCTCTATAGGCAATAGGCGATGGGTTGGCGAGGATGGCTCTGTGC 2109
313 CCCCAGGCTCCCGGCGCTAGTTGGGCGCTTCAGACCCCGGCGGATGGTTCGCTAATTG 372

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Db      2110 CCCGTCCTCTCCGCTAGTTGGGAGCCCAAGACCCCGCGTAGGTGCGCAATTTG 2169
QY      373  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| 432
Db      2170 GGTAAAGTCAATGATACCTTACATGGGCTTGGCCGACCTCATGGGGTATATCCGCTC 2229
QY      433  GTCGGCCGCCCTTAAAGGAGGCGTTGCCAGAGGCCCTTGGCGCAAGGCTTCCGGGATC----- 487
Db      2230 GTGGGCCGCCCTTAAGGGAGGCGCTGCCAGAGGCCCTTGGCGCATGGCGTCCGGGTTCTGGAG 2289
QY      488  ----- 487
Db      2290 GACGCGTGAATATGCAACAGGAAATCTGCCGTTGCTCTTCTATCTTCTTTTG 2349
QY      488  ----- 487
Db      2350 GCTTTGCTGTCTGTTTGTGACCATCCAGCTTCCGCTTATGAAATGCGCAAGTATCCGA 2409
QY      488  ---TACCAGTCACCAAGATTTTCCAAATGGAGCATTTGTATGAGGCGGAAGCATG 544
Db      2410 GTTACCATGTCAAGAACGACTGCTTCAAGCAAGCATTTGTATGAGGCAAGCGGACATG 2469
QY      545  ATCATGCAATCTCCCGGGTGGTCCCTTGCCTTGGGAAAGGTAAATCTCTGTGCTGG 604
Db      2470 ATCATGCAATACCCCGGGTGGTCCCTTGCCTTGGGAAAGCATCTCTCCGCTGCTGG 2529
QY      605  GTACCGTTTCCCGCAGCTTGGCAGCCAGGAATGTAGCGTCCCACTCAGGCAATTGG 664
Db      2530 GTAGCGCTCACTCCAGCGTGCAGGAAAGCTTACCGTCCCACTCAGGCAATGCA 2589
QY      665  CGACAGCTGCACTTGTGTTGGGGCGGCACTCTGTTCTGCTATGTAATGTGGGGAC 724
Db      2590 CGCATGTCTGATTTGCTGCTGGGGCGGCTGCTCTGCTCCGCTATGTAGGTGGAGAT 2649
QY      725  CTCTGTGGGTCCGTTCTTCTGTCGCGCAACTGTTCACCTTACAGCCCGCAGNACTAC 784
Db      2650 CTCTGCGGAATCTGTTTCTGTCGCGCAAGCTTTCACCTTCTGCTGCGCGGACAG 2709
QY      785  ACAGTGCAAGACTGCAATTTGTTCACTACCCCGGCGCATATAAGGG 831
Db      2710 ACAGTACAGAGACTGCAATTTGCTCAATATATCCGCGCAAGTACAGG 2756

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OM nucleic - nucleic search, using sw model

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Perfect score: 340
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Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 9: /cgn2_6/prodata/1/ina/backfilest1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	ID	Description
1	325.6	95.8	340	US-08-836-075A-67	Sequence 67, Appl
2	261.2	76.8	340	US-08-836-075A-53	Sequence 53, Appl
3	258	75.9	340	US-08-836-075A-57	Sequence 57, Appl
4	255.2	75.1	340	US-09-597-877-11	Sequence 11, Appl
5	253.6	74.6	340	US-08-441-971-7	Sequence 7, Appl
6	253.6	74.6	340	US-08-221-653-7	Sequence 7, Appl
7	253.6	74.6	340	US-08-442-144A-7	Sequence 7, Appl
8	253.6	74.6	340	US-08-441-970-7	Sequence 7, Appl
9	252	74.1	340	US-08-441-971-8	Sequence 8, Appl
10	252	74.1	340	US-08-221-653-8	Sequence 8, Appl
11	252	74.1	340	US-08-442-144A-8	Sequence 8, Appl
12	252	74.1	340	US-08-441-970-8	Sequence 8, Appl
13	252	74.1	340	US-08-150-204E-96	Sequence 96, Appl
14	250.4	73.6	340	US-08-441-971-11	Sequence 11, Appl
15	250.4	73.6	340	US-08-441-971-12	Sequence 12, Appl
16	250.4	73.6	340	US-08-221-653-11	Sequence 11, Appl
17	250.4	73.6	340	US-08-221-653-12	Sequence 12, Appl
18	250.4	73.6	340	US-08-442-144A-11	Sequence 11, Appl
19	250.4	73.6	340	US-08-442-144A-12	Sequence 12, Appl
20	250.4	73.6	340	US-08-441-970-11	Sequence 11, Appl
21	250.4	73.6	340	US-08-441-970-12	Sequence 12, Appl
22	250.4	73.6	340	US-08-191-160-3	Sequence 3, Appl
23	250.4	73.6	340	US-08-191-160-22	Sequence 22, Appl
24	249.6	73.4	340	US-08-836-075A-55	Sequence 55, Appl

25	247.2	72.7	340	US-08-441-971-10	Sequence 10, Appl
26	247.2	72.7	340	US-08-221-653-10	Sequence 10, Appl
27	247.2	72.7	340	US-08-442-144A-10	Sequence 10, Appl
28	247.2	72.7	340	US-08-441-970-10	Sequence 10, Appl
29	245.6	72.2	1773	US-09-720-095A-1	Sequence 1, Appl
30	245.6	72.2	2991	US-08-324-977-49	Sequence 49, Appl
31	245.6	72.2	2991	US-08-384-616-49	Sequence 49, Appl
32	245.6	72.2	2991	US-08-904-686A-49	Sequence 49, Appl
33	245.6	72.2	2991	US-09-315-850-49	Sequence 49, Appl
34	245.6	72.2	6189	US-10-259-275-41	Sequence 41, Appl
35	245.6	72.2	7863	US-08-324-977-35	Sequence 35, Appl
36	245.6	72.2	7863	US-08-384-616-35	Sequence 35, Appl
37	245.6	72.2	7863	US-08-904-686A-35	Sequence 35, Appl
38	245.6	72.2	7863	US-09-315-850-35	Sequence 35, Appl
39	245.6	72.2	7917	US-08-324-977-31	Sequence 31, Appl
40	245.6	72.2	7917	US-08-384-616-31	Sequence 31, Appl
41	245.6	72.2	7917	US-08-904-686A-31	Sequence 31, Appl
42	245.6	72.2	7917	US-09-315-850-31	Sequence 31, Appl
43	245.6	72.2	7989	US-09-539-601-10	Sequence 10, Appl
44	245.6	72.2	7992	US-10-005-469-1	Sequence 1, Appl
45	245.6	72.2	7992	US-10-005-469-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-67
Sequence 67, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 67:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

	Query Match	95.8%;	Score 325.6;	DB 3;	Length 340;
	Best Local Similarity	100.0%;	Pred. No. 3.5e-95;		
	Matches 326;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	8 GTACTAGAGTGTATATCCGTGCGAGAGTCAATTATACCAATGCTGTGACCTGGACCCC 67				
Db	8 GTACTAGAGTGTATATCCGTGCGAGAGTCAATTATACCAATGCTGTGACCTGGACCCC 67				
QY	68 GAGGCTGCGCGTAGCAATAAGTGCCTACTAGAGCGGCTATATGTGCGGGGACCTCTCAC 127				
Db	68 GAGGCTGCGCGTAGCAATAAGTGCCTACTAGAGCGGCTATATGTGCGGGGACCTCTCAC 127				
QY	128 AACTCAAAAGAGACAGAACTGCGGCTATGCGCGGTGCGTGCAGCGGCTGTGCTACTACT 187				
Db	128 AACTCAAAAGAGACAGAACTGCGGCTATGCGCGGTGCGTGCAGCGGCTGTGCTACTACT 187				
QY	188 AGCTGCGGTAAACACCTTCACATGCTACTGAAAACGCGCGGCGCTGTGAGCTGCAAG 247				
Db	188 AGCTGCGGTAAACACCTTCACATGCTACTGAAAACGCGCGGCGCTGTGAGCTGCAAG 247				
QY	248 CTCCGGGAATGCACAAATGCTGTGTGTGTGCGAGACACTGTGCTTATCTGTGAGTGG 307				
Db	248 CTCCGGGAATGCACAAATGCTGTGTGTGTGCGAGACACTGTGCTTATCTGTGAGTGG 307				
QY	308 GGGGTCCAGGAGGATGCTGCAAGCT 333				
Db	308 GGGGTCCAGGAGGATGCTGCAAGCT 333				

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 57:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-57

Query Match 75.9%; Score 258; DB 3; Length 340;
 Best Local Similarity 86.5%; Pred. No. 2.3e-73;
 Matches 282; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

QY 8 GTCACTGAGAGTATCCGTGTCGAGGARTCAATTATTCAGTGTGACCGGCCCC 67
 DB 8 GTTACTGAGAGACGACTTGTGTGAGGAAATCAATCTACAGTGTGTGAGCCCC 67
 QY 68 GAGGCTCGGATGCCATTAAGTCGCTCACTGAGCGGCTATATGTGCGGGCCCTCTCACC 127
 DB 68 GAGGCGCGGAGGCGCATTAAGTCGCTCACGAGCGGCTATATGCGGGGTCCCCAAC 127
 QY 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATATGTGCGGGGCTGTGACTACT 187
 DB 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATATGTGCGGGGCTGTGACTACT 187
 QY 188 AACTGCGGTAACACCTCTCATCTCTGAAAGCGCGGCGCTGTGAGCTGCAAG 247
 DB 188 AACTGCGGTAACACCTCTCTCATCTCTGAAAGCGCGGCGCTGTGAGCTGCAAG 247
 QY 248 CTCGCGGAATGACAACTGCTGTGTGTGCGGAGCACTGCTGTATCTGTGAGAGTGC 307
 DB 248 CTCGAGAGCTGCAACATGCTGTGTGTGCGGAGCACTGCTGTATCTGTGAGAGTGC 307
 QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
 DB 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333

RESULT 4

US-09-597-877-11
 Sequence 11, Application US/09597877
 Patent No. 6461845
 GENERAL INFORMATION:
 APPLICANT: Hagedorn, Curt H.
 TITLE OF INVENTION: Recombinant Hepatitis C Virus RNA Replicase
 FILE REFERENCE: 76-95B
 CURRENT APPLICATION NUMBER: US/09/597,877
 CURRENT FILING DATE: 2000-06-20
 PRIOR APPLICATION NUMBER: 60/004,383
 PRIOR FILING DATE: 1995-09-27
 PRIOR APPLICATION NUMBER: 08/722,806
 PRIOR FILING DATE: 1996-09-27
 PRIOR APPLICATION NUMBER: 09/337,028
 PRIOR FILING DATE: 1999-06-25
 NUMBER OF SEQ ID NOS: 23
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 11
 LENGTH: 1782
 TYPE: DNA
 ORGANISM: Hepatitis C virus
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1)..(1779)
 US-09-597-877-11

Query Match 75.1%; Score 255.2; DB 3; Length 1782;
 Best Local Similarity 86.2%; Pred. No. 3.3e-72;

Matches 281; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 8 GTCACTGAGAGTATCCGTGTCGAGGARTCAATTATTCAGTGTGACCGGCCCC 67
 DB 8 GTTACTGAGAGACGACTTGTGTGAGGAAATCAATCTACAGTGTGTGAGCCCC 67
 QY 68 GAGGCTCGGATGCCATTAAGTCGCTCACTGAGCGGCTATATGTGCGGGCCCTCTCACC 127
 DB 68 GAGGCGCGGAGGCGCATTAAGTCGCTCACGAGCGGCTATATGCGGGGTCCCCAAC 127
 QY 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATATGTGCGGGGCTGTGACTACT 187
 DB 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATATGTGCGGGGCTGTGACTACT 187
 QY 188 AACTGCGGTAACACCTCTCATCTCTGAAAGCGCGGCGCTGTGAGCTGCAAG 247
 DB 188 AACTGCGGTAACACCTCTCTCATCTCTGAAAGCGCGGCGCTGTGAGCTGCAAG 247
 QY 248 CTCGCGGAATGACAACTGCTGTGTGTGCGGAGCACTGCTGTATCTGTGAGAGTGC 307
 DB 248 CTCGAGAGCTGCAACATGCTGTGTGTGCGGAGCACTGCTGTATCTGTGAGAGTGC 307
 QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
 DB 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333

RESULT 5

US-08-441-971-7
 Sequence 7, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: Wordperfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE: US/07/881,528

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5j1
US-08-442-144A-7

Query Match
Best Local Similarity 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 5.9e-72;
Matches 280; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 8 GTCACTGAGATGATATCCGTGTCAGAGATCAATTATGCTGACTGCCCC 67
DB 8 GTCACTGAGATGATACACCCGTGTCAGAGATCAATTATGCTGACTGCCCC 67
QY 68 GAGGCTCCGCTAGCATTAAGTGTGCTCACTAGAGCGGCTATGTCGGGGGCGCTGCAAC 127
DB 68 GAGGCTCCGCTAGCATTAAGTGTGCTCACTAGAGCGGCTATGTCGGGGGCGCTGCAAC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTGCGAGCGGCTGCTGACTACT 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTGCGAGCGGCTGCTGACTACT 187
QY 188 AGCTCGGTAACACCTCTCATGCTGTAAGAGCGCGGCTGCTGACTGCAAG 247
DB 188 AGCTCGGTAACACCTCTCATGCTGTAAGAGCGCGGCTGCTGACTGCAAG 247
QY 248 CTCGGGGAATGACATGCTGTCGTGTGGGAGAGCGGCTGCTGACTGCAAG 307
DB 248 CTCGGGGAATGACATGCTGTCGTGTGGGAGAGCGGCTGCTGACTGCAAG 307
QY 308 GGGGTCAGAGAGATGCTGCAAGCCT 333
DB 308 GGGGTCAGAGAGATGCTGCAAGCCT 333

RESULT 8
US-08-441-970-7
Sequence 7, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5j1
US-08-441-970-7

Query Match
Best Local Similarity 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 5.9e-72;
Matches 280; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 8 GTCACTGAGATGATATCCGTGTCAGAGATCAATTATGCTGACTGCCCC 67
DB 8 GTCACTGAGATGATACACCCGTGTCAGAGATCAATTATGCTGACTGCCCC 67
QY 68 GAGGCTCCGCTAGCATTAAGTGTGCTCACTAGAGCGGCTATGTCGGGGGCGCTGCAAC 127
DB 68 GAGGCTCCGCTAGCATTAAGTGTGCTCACTAGAGCGGCTATGTCGGGGGCGCTGCAAC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTGCGAGCGGCTGCTGACTACT 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTGCGAGCGGCTGCTGACTACT 187
QY 188 AGCTCGGTAACACCTCTCATGCTGTAAGAGCGCGGCTGCTGACTGCAAG 247
DB 188 AGCTCGGTAACACCTCTCATGCTGTAAGAGCGCGGCTGCTGACTGCAAG 247
QY 248 CTCGGGGAATGACATGCTGTCGTGTGGGAGAGCGGCTGCTGACTGCAAG 307
DB 248 CTCGGGGAATGACATGCTGTCGTGTGGGAGAGCGGCTGCTGACTGCAAG 307
QY 308 GGGGTCAGAGAGATGCTGCAAGCCT 333
DB 308 GGGGTCAGAGAGATGCTGCAAGCCT 333

RESULT 9
US-08-441-971-8
Sequence 8, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS:
ADDRESS: Chiton Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-442-144A-8
Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 1.9e-71;
Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;
QY 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATACCAATGCTGTGACCTGGCCCC 67
DB 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATACCAATGCTGTGACCTGGCCCC 67
QY 68 GAGGCTCGGATGATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTCTCAGC 127
DB 68 GAGGCTCGGATGATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTCTCAGC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTCGAGCGGTCGTGCTGACTA 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTCGAGCGGTCGTGCTGACTA 187
QY 128 AATTCAAAAGGCGAAGACTGCGGCTATGCGCGGTCGAGCGGTCGTGAGACT 187
DB 128 AATTCAAAAGGCGAAGACTGCGGCTATGCGCGGTCGAGCGGTCGTGAGACT 187
QY 188 AGCTGCGGTACACCTTCACTGCTAAGAAAGCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGGTACACCTTCACTGCTAAGAAAGCGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGGGGAATGACATGCTGTGTGCGGAGCACTGCTGCTATCTGTGAGAGT 307
DB 248 CTCGGGGAATGACATGCTGTGTGCGGAGCACTGCTGCTATCTGTGAGAGT 307
QY 248 CTCGAGACTGACAGATGCTGTGTGCGGAGCACTGTGTGTAATCTGTAAAGCGG 307
DB 248 CTCGAGACTGACAGATGCTGTGTGCGGAGCACTGTGTGTAATCTGTAAAGCGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAACCCAGAGAGATGCGGCGAGCCT 333
RESULT 12
US-08-441-970-8
Sequence 8, Application US/08441970

Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-970-8
Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 1.9e-71;
Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;
QY 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATACCAATGCTGTGACCTGGCCCC 67
DB 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATACCAATGCTGTGACCTGGCCCC 67
QY 68 GAGGCTCGGATGATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTCTCAGC 127
DB 68 GAGGCTCGGATGATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTCTCAGC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTCGAGCGGTCGTGCTGACTA 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGTCGAGCGGTCGTGCTGACTA 187
QY 128 AATTCAAAAGGCGAAGACTGCGGCTATGCGCGGTCGAGCGGTCGTGAGACT 187
DB 128 AATTCAAAAGGCGAAGACTGCGGCTATGCGCGGTCGAGCGGTCGTGAGACT 187
QY 188 AGCTGCGGTACACCTTCACTGCTAAGAAAGCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGGTACACCTTCACTGCTAAGAAAGCGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGGGGAATGACATGCTGTGTGCGGAGCACTGCTGCTATCTGTGAGAGT 307
DB 248 CTCGGGGAATGACATGCTGTGTGCGGAGCACTGCTGCTATCTGTGAGAGT 307
QY 248 CTCGAGACTGACAGATGCTGTGTGCGGAGCACTGTGTGTAATCTGTAAAGCGG 307
DB 248 CTCGAGACTGACAGATGCTGTGTGCGGAGCACTGTGTGTAATCTGTAAAGCGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAACCCAGAGAGATGCGGCGAGCCT 333

RESULT 13

US-08-150-204E-96

Sequence 96, Application US/08150204E

Patent No. 6538126

GENERAL INFORMATION:

APPLICANT: CHO, Joong Myung

LEE, Yong Beom

PARK, Young Moo

LIM, Kook Jin

CHOI, Deog Young

SO, Hong Seob

KIM, Chun Hyung

KIM, Sung Taek

YANG, Jae Young

TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES

NUMBER OF SEQUENCES: 128

CORRESPONDENCE ADDRESS:

ADDRESSEE: YANG, Jae Young

STREET: 386-1, Doryong-dong, Yuseong-gu

CITY: Daejeon

STATE: Daejeon

COUNTRY: Republic of Korea

ZIP: 305-340

MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage

COMPUTER: IBM PC/pentium

OPERATING SYSTEM: Windows

SOFTWARE: Microsoft Word

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/150,204E

FILING DATE: 20-Apr-1994

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: KR 91-9510

FILING DATE: 10-JUN-1991

APPLICATION NUMBER: KR 91-13601

FILING DATE: 6-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: Shahan Islam, Esq.

REGISTRATION NUMBER: 32,507

REFERENCE/DOCKET NUMBER: 2695/FLK

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 940-8564

TELEFAX: (212) 940-8776

INFORMATION FOR SEQ ID NO: 96

SEQUENCE CHARACTERISTICS:

LENGTH: 9472 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA

FEATURE:

OTHER INFORMATION: KHCV-LBCL, Fig. 2

SEQUENCE DESCRIPTION: SEQ ID NO: 96

US-08-150-204E-96

Query Match

Best Local Similarity 74.1%; Score 252, DB 3; Length 9472;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.6%; Pred. No. 6.7e-71;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.6%; Pred. No. 6.7e-71;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.6%; Pred. No. 6.7e-71;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.6%; Pred. No. 6.7e-71;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.6%; Pred. No. 6.7e-71;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.6%; Pred. No. 6.7e-71;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.6%; Pred. No. 6.7e-71;

Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

RESULT 14

US-08-441-971-11

Sequence 11, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE: 8 May 1991

APPLICATION NUMBER: US/07/881,528

FILING DATE: 07/697,326

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5apl

US-08-441-971-11

Query Match

Best Local Similarity 73.6%; Score 250.4, DB 3; Length 340;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

RESULT 14

US-08-441-971-11

Sequence 11, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE: 8 May 1991

APPLICATION NUMBER: US/07/881,528

FILING DATE: 07/697,326

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5apl

US-08-441-971-11

Query Match

Best Local Similarity 73.6%; Score 250.4, DB 3; Length 340;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

Best Local Similarity 85.3%; Pred. No. 6.4e-71;

Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

Query Match

QY 68 GAGCTCGGATGATTAAGTCTACTAGCGGCTATATGTCGGGGCCCTCTCACC 127
DB 68 GAAGCCAGACAGCTATAAGTCTGCTCAGAGCGGCTGTACATCGGGGGTCCCTGACT 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATCGCCGGTGGCGGAGCGGTGTGCTGACT 187
DB 128 AATTCAAAAGGACAGAACTGCGGCTATCGCCGGTGGCGCAAGCGGCTGTGAGACT 187
QY 188 AGCTGCGGTAACACCTCAATGCTACTGAAAGCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGGTAACACCTCAATGCTACTGAAAGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGGGAATGACAACTGCTGTGTGTGCGAGCACTGCTTATCTGTGAGAGTGG 307
DB 248 CTCGAGGACTGACAGATGCTGTGTGTGCGAGCACTTGTGTATCTGTGAGAGCGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAAACCAAGAGAGACGCGCGAGCCT 333

RESULT 15

US-08-441-971-12
; Sequence 12, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; OPERATING SYSTEM: IBM compatible
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiak, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns59p3
; US-08-441-971-12

Query Match

73.6%; Score 250.4; DB 3; Length 340;

Best Local Similarity 85.3%; Pred. No. 6.4e-71;
Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;
QY 8 GTCACCTGAGAGATGATCGGTGTGAGGATTCATTTACCAATGCTGTGACCTGGCCCC 67
DB 8 GTCACCTGAGAGATGATCGGTGTGAGGATTCATTTACCAATGCTGTGACCTGGCCCC 67
QY 68 GAGCTCGGATGATTAAGTCTACTAGCGGCTATATGTCGGGGCCCTCTCACC 127
DB 68 GAAGCCAGACAGCTATAAGTCTGCTCAGAGCGGCTTATACATGGGGGTCCCTGACT 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATCGCCGGTGGCGGAGCGGTGTGCTGACT 187
DB 128 AATTCAAAAGGACAGAACTGCGGCTATCGCCGGTGGCGCAAGCGGCTGTGAGACT 187
QY 188 AGCTGCGGTAACACCTCAATGCTACTGAAAGCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGGTAACACCTCAATGCTACTGAAAGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGGGAATGACAACTGCTGTGTGTGCGAGCACTGCTTATCTGTGAGAGTGG 307
DB 248 CTCGAGGACTGACAGATGCTGTGTGTGCGAGCACTTGTGTATCTGTGAGAGCGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAAACCAAGAGAGACGCGCGAGCCT 333

Search completed: January 11, 2006, 10:56:42
Job time : 83.331 secs

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MOLECULE TYPE: CDNA

ANTI-SENSE: NO
US-08-836-075A-69

Query Match 98.2%; Score 334; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1.7e-96;
Matches 335; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCATATACAGGCTTGTTCCTT 60
    |||
Db 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCATATACAGGCTTGTTCCTT 60
QY 61 ACCCGAGCAGGCGCAGAACTGCCATACATCACTTATGACTGAGAGACTTACGTAGAGGGCC 120
    |||
Db 61 ACCCGAGCAGGCGCAGAACTGCCATACATCACTTATGACTGAGAGACTTACGTAGAGGGCC 120
QY 121 CATGATGAACAGCAAGGGCAATCTCTCGGATACAGGCAATTCGCGGCCAGAGAGTGT 180
    |||
Db 121 CATGATGAACAGCAAGGGCAATCTCTCGGATACAGGCAATTCGCGGCCAGAGAGTGT 180
QY 181 CACCAACAGTATGGGGATATACCATCACTGCTACATCAAGGCGCTTGTAAAGC 240
    |||
Db 181 CACCAACAGTATGGGGATATACCATCACTGCTACATCAAGGCGCTTGTAAAGC 240
QY 241 ACAGAGATATGTCGCCCCACCATCTGCTGTGTCGGCGATGACTTGTTCATCTCAGA 300
    |||
Db 241 ACAGAGATATGTCGCCCCACCATCTGCTGTGTCGGCGATGACTTGTTCATCTCAGA 300
QY 301 GAGTCAGGAGTGCAGAGAGACGACCGGAACCTGA 335
    |||
Db 301 GAGTCAGGAGTGCAGAGAGACGACCGGAACCTGA 335
```

RESULT 2

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 81.8%; Score 278; DB 3; Length 340;
Best Local Similarity 89.3%; Pred. No. 1.2e-78;
Matches 299; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCATATACAGGCTTGTTCCTT 60
    |||
Db 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCATATACAGGCTTGTTCCTT 60
QY 61 ACCCGAGCAGGCGCAGAACTGCCATACATCACTTATGACTGAGAGACTTACGTAGAGGGCC 120
    |||
Db 61 ACCCGAGCAGGCGCAGAACTGCCATACATCACTTATGACTGAGAGACTTACGTAGAGGGCC 120
QY 121 CATGATGAACAGCAAGGGCAATCTCTCGGATACAGGCAATTCGCGGCCAGAGAGTGT 180
    |||
Db 121 CATGATGAACAGCAAGGGCAATCTCTCGGATACAGGCAATTCGCGGCCAGAGAGTGT 180
QY 181 CACCAACAGTATGGGGATATACCATCACTGCTACATCAAGGCGCTTGTAAAGC 240
    |||
Db 181 CACCAACAGTATGGGGATATACCATCACTGCTACATCAAGGCGCTTGTAAAGC 240
QY 241 ACAGAGATATGTCGCCCCACCATCTGCTGTGTCGGCGATGACTTGTTCATCTCAGA 300
    |||
Db 241 ACAGAGATATGTCGCCCCACCATCTGCTGTGTCGGCGATGACTTGTTCATCTCAGA 300
QY 301 GAGTCAGGAGTGCAGAGAGACGACCGGAACCTGA 335
    |||
Db 301 GAGTCAGGAGTGCAGAGAGACGACCGGAACCTGA 335
```

RESULT 3

US-09-878-281A-145
Sequence 145, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
TITLE OF INVENTION: and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: Patencin version 3.1
SEQ ID NO 145
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-145

Query Match 76.0%; Score 258.4; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 2.1e-72;
Matches 286; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCATATACAGGCTTGTTCCTT 60
    |||
Db 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCATATACAGGCTTGTTCCTT 60
QY 61 ACCCGAGCAGGCGCAGAACTGCCATACATCACTTATGACTGAGAGACTTACGTAGAGGGCC 120
    |||
Db 61 ACCCGAGCAGGCGCAGAACTGCCATACATCACTTATGACTGAGAGACTTACGTAGAGGGCC 120
QY 121 CATGATGAACAGCAAGGGCAATCTCTCGGATACAGGCAATTCGCGGCCAGAGAGTGT 180
    |||
Db 121 CATGATGAACAGCAAGGGCAATCTCTCGGATACAGGCAATTCGCGGCCAGAGAGTGT 180
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[illegible]

RESULT 4

```

US-08-836-075A-73
Sequence 73, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ. ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-73

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Query Match	75.6%;	Score 257.2;	DB 3;	Length 340;
Best Local Similarity	85.4%;	Pred. No. 5e-72;		
Matches 286; Conservative	0;	Mismatches 49;	Indels 0;	Gaps 0

QY 1 CTGACAGGTACAGAGAGGATATTAGNACTAGGAGTCATATCCAGGCTGTTCCTT 60

Db 1 CTAAACAGTTCGCGAGAGAGACATCGAGACCGAGAGTCTCATTTACCTTGGCTCTCCTT 60

QY 61 ACCGAGACGAGCCGAACTGCCATACTCATTTGACTGAGAGACTCTACGTAGAGAGGGCC 120

Db	61	ACCAGAGCAAGCCGGAACCTGGCATACATTCACTGACTGAGAACCTTTAGCTAGAGAGGCG	120
QY	121	CATGATGAAACAGCAAAAGGGCAATCTCTGGGATACAGGCACTTCGCGGCCACGGAGAGTGCT	180
Db	121	CATGATGAAACAGCAAGGACAGTCTCTGGGATACAGACGTTTCCGCGCCAGCGGAGTGCT	180
QY	181	CACCACCAAGTATGGGGGAATACCATCAGCGTGCTACATCAAGGCGGCTTAGCGGTTGTTAAGC	240
Db	181	CACCACCAAGCATGGGGGAATACCATACATGCTATGTGGAAGGATTAAGTGTCTCGCAAAAGC	240
QY	241	AGCAGGAATAGTGCAGCCGCCACCATCTGCTGTGCGGCGATGACTTAATGTTCACTTCAAG	300
Db	241	TGCAGGCACTCTTGTCTCCACAGATCTGTGTTGTGTGGCGACGATCTGTGCATCATCTCAGA	300
QY	301	GAGTCAGGAGGTCGAGAGGAGGACGACGGAAACCTGA	335
Db	301	GAGTCAGGAAACCGAGAGGATGAACGGAAACCTGA	335

RESULT 5

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US-07-925-695-4
; Sequence 4, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tatsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Weilacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weilacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2693 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-4

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Query Match	74.7%	Score 254	DB 2	Length 2693
Best Local Similarity	84.8%	Pred. No. 1.2e-70		
Matches 284	Conservative	0	Mismatches 51	Indels 0
			Gaps	0

29 1 CTCGACAGTCACAGAGAGATATAAGNACTGAGGAGTCCATATACCAGGCTTGTTCCTT 60

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Db      2334 CTCAACCGTCTAGAGAGACATAGAGAGTCCATATATCCGGCTTGTCTT 2393
Qy      61 ACCCGAGAGCCGCAAGTCTCCATCACTCATTTAGTGAAGACTTACGTAGAGAGGCC 120
Db      2394 GCCCGAGAGAGCCGCAAGTCTCCATCACTCATTTAGTGAAGACTTACGTAGAGAGGCC 2453
Qy      121 CATGATGAACGCAAGGCGCATCTGCGGATGACGAGGATTCGCGCGCAGCGAGTCT 180
Db      2454 CATGTTCAACAGCAAGGCGCAGACTGCGGATGACGAGGATTCGCGCGCAGCGAGTCT 2513
Qy      181 CACCCAGCATGATGGGAAATACCATCATGCTATCAATCAAGGCGCTTGTAAAGC 240
Db      2514 TACCATGATGAGGGAACCATCATGCTATGTAAGGCTTAAAGGCG 2573
Qy      241 AGCAGAAATAGTGGCCCCCAGCATGCTGTTGCGGAGTACGACTTATTCATCTCA 300
Db      2574 TGCAAGGATTAATTTGGCCCAATGCTGGTATGCGCGCATGACTTGTTCATCTCAGA 2633
Qy      301 GAGTCAGGAGTTCGAGAGAGACCGGAACCTGA 335
Db      2634 GAGCCAGGAGACCGAGAGAGACGAGCGGAACCTGA 2668

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RESULT 6
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-1

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Query Match      74.7%; Score 254; DB 2; Length 9589;
Best Local Similarity 69.6%; Pred. No. 2e-70;
Matches 233; Conservative 51; Mismatches 51; Indels 0; Gaps 0;
Qy      1 CTGACAGTCAACAGAGAGATATTAAGACTGAGAGATCCATATACAGGCTTGTCTT 60
Db      8341 CUCAACCGUACUGAGAGAGACUACAGACUGAGAGACUUAUUGGCUUGUUCU 8400
Qy      61 ACCCGAGAGCCGCAAGTCTCCATCACTCATTTAGTGAAGACTTACGTAGAGAGGCC 120
Db      8401 GCCCGAGAGAGCCGCAAGTCTCCATCACTCATTTAGTGAAGACTTACGTAGAGAGGCC 8460
Qy      121 CATGATGAACGCAAGGCGCATCTGCGGATGACGAGGATTCGCGCGCAGCGAGTCT 180
Db      8461 CAUUCUACAGCAAGGCGCAGACTGCGGATGACGAGGATTCGCGCGCAGCGAGTCT 8520
Qy      181 CACCCAGCATGATGGGAAATACCATCATGCTATCAATCAAGGCGCTTGTAAAGC 240
Db      8521 UACCACTUAGCAUGGAGGAAACCAUACAUUGUUAUUGGCUUAGCGCCUUAAGGC 8580
Qy      241 AGCAGAAATAGTGGCCCCCAGCATGCTGTTGCGGAGTACGACTTATTCATCTCAGA 300
Db      8581 UGCAAGGAGUAAUUGCGCCACAGUACUGUUAUGCGCGAGUACUUGUUAUUGUUAUGA 8640
Qy      301 GAGTCAGGAGTTCGAGAGAGACCGGAACCTGA 335
Db      8641 GAGCCAGGAGACCGAGAGAGACGAGCGGAACCTGA 8675

```

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RESULT 7
US-07-925-695-2
; Sequence 2, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs

```

TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2

Query Match 74.7%; Score 254; DB 2; Length 9589;
Best Local Similarity 84.8%; Pred. No. 2e-70;
Matches 284; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 CTCGACAGTCAAGAGAGATATAGNACTGAGAGTCCATATACAGGCTTGTCTT 60
DB 8341 CTCACCGGCTCAGAGAGACATCAGACTGAGAGTCCATATATCGGCTTGTCTT 8400
QY 61 ACCCGAGGCGCAGAACTGCTACCTGATGAGAGCTCTAGTGAAGGCGC 120
DB 8401 GCCCGAGGCGCCACACTGCTCACTGACTGAGAGCTTATGTTGAGGCGC 8460
QY 121 CATGATGAACAGCAAGGCAATCTGCGGATACAGGCAATTCGCGCGCAGCGAGTGT 180
DB 8461 CATGTTCAACAGCAAGGCGCAACCTGCGGATACAGGCGTTCGCGCGCAGCGGTTGT 8520
QY 181 CACCACTGATGAGGAAATACATCATCTGCTACATCAAGCCCTTAGCGGCTTTAAAGC 240
DB 8521 TACCACTGATGAGGAAACACCATCATCTATGTGAAGCCTTAGCGGCTTTAAAGC 8580
QY 241 AGCAGAAATAGTGCGCCCGCCACCATGCTGTGTGCGGCGATGACTAGTTGTATCTCA 300
DB 8581 TGCAAGGATATATGCGCCCACTGCTGTGTATGCGGCGATGACTAGTTGTATCTCA 8640
QY 301 GAGTCAGGAGTGCAGAGAGACGACCGAACTGA 335
DB 8641 GAGCGAGGAGACGAGAGAGACGAGCGAACTGA 8675

RESULT 8

US-08-441-971-15

Sequence 15, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-971-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACAGTCAAGAGAGATATAGNACTGAGAGTCCATATACAGGCTTGTCTT 60
DB 1 CTCACAGTCAAGAGAGACATCAGACTGAGAGTCCATATATCGGCTTGTCTT 60
QY 61 ACCCGAGGCGCAGAACTGCTACCTGATGAGAGCTCTAGTGAAGGCGC 120
DB 61 GCTGAGAGGCGCCGAACTGCTATACCTGACTGAGAGCTTATGTTGAGGCGC 120
QY 121 CATGATGAACAGCAAGGCAATCTGCGGATACAGGCAATTCGCGCGCAGCGAGTGT 180
DB 121 CATGCAAAACAGCAAGGCGCAATCTGCGGATACAGGCGTTCGCGCGAGCGAGTGT 180
QY 181 CACCACTGATGAGGAAATACATCATCTGCTACATCAAGCCCTTAGCGGCTTTAAAGC 240
DB 181 CACCACTGATGAGGAAACACCATCATCTATGTGAAGCCTTAGCGGCTTTAAAGC 240
QY 241 AGCAGAAATAGTGCGCCCGCCACCATGCTGTGTGCGGCGATGACTAGTTGTATCTCA 300
DB 241 GCGGCGATTTGTCTCCACCATGTTGTGTGCGGCGATGACTAGTTGTATCTCA 300
QY 301 GAGTCAGGAGTGCAGAGAGACGACCGAACTGA 335
DB 301 GAGTCAGGAGTGCAGAGAGATGAGCGAACTGA 335

RESULT 9

US-08-221-653-15

Sequence 15, Application US/08221653

Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET INFORMATION: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACATGACAGAGAGATATAGNACTAGAGATCTATACAGGCTTGTCTT 60
DB 1 CTCTACAGTCACAGAGAGGAGACATCAGAACGAGAGTCATCTATCTGTCTCACT 60
QY 61 ACCGAGCAGGCGCAGACTGCCATCACTCATCTGAGAGACTTACGTAGAGGCGC 120
DB 61 GCTTGAGAGGCGCCGAACTGCTATACACTCACTGACTGAGAGACTGTAGTGGGGGCGC 120
QY 121 CATGATGAACAGCAAAAGGGCAATCTGCGGATACAGGCTTCCGCGCAGCGAGTGT 180
DB 121 CATGACAAACAGCAAAAGGGGCAATCTGCGGATACAGGCTTCCGCGCAGCGAGTGT 180
QY 181 CACCAACGATATGGGGAATACCATCACTGCTACAGGCGCTTGAAGC 240
DB 181 CACCAACGATATGGGGAACACGCTCAGCTACGTAAGGCGGCGGTGAAGC 240
QY 241 AGCAGAAATAGTGGCCCCCACCATGCTGTGTGCGCGAGTGAAGTGTCTCAGA 300
DB 241 CGCGGGCATTTGTGCTCCCAACATGTGTGTGCGCGAGCACTGTGTCTCAGA 300
QY 301 GAGTCAGGAGTTCAGAGAGAGACCGGAACTTGA 335
DB 301 GAGTCAGGAGGTCGAGAGAGATGAGCGGAACCTGA 335

RESULT 10
US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSER: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A

FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACATGACAGAGAGATATAGNACTAGAGATCTATACAGGCTTGTCTT 60
DB 1 CTCTACAGTCACAGAGAGGAGACATCAGAACGAGAGTCATCTATCTGTCTCACT 60
QY 61 ACCGAGCAGGCGCAGAACTGCCATCACTCATCTGAGAGACTTACGTAGAGGCGC 120
DB 61 GCTTGAGAGGCGCCGAACTGCTATACACTCACTGACTGAGAGACTGTAGTGGGGGCGC 120
QY 121 CATGATGAACAGCAAAAGGGCAATCTGCGGATACAGGCTTCCGCGCAGCGAGTGT 180
DB 121 CATGACAAACAGCAAAAGGGGCAATCTGCGGATACAGGCTTCCGCGCAGCGAGTGT 180
QY 181 CACCAACGATATGGGGAATACCATCACTGCTACAGGCGCTTGAAGC 240
DB 181 CACCAACGATATGGGGAACACGCTCAGCTACGTAAGGCGGCGGTGAAGC 240
QY 241 AGCAGAAATAGTGGCCCCCACCATGCTGTGTGCGCGAGTGAAGTGTCTCAGA 300
DB 241 CGCGGGCATTTGTGCTCCCAACATGTGTGTGCGCGAGCACTGTGTCTCAGA 300
QY 301 GAGTCAGGAGTTCAGAGAGAGACCGGAACTTGA 335
DB 301 GAGTCAGGAGGTCGAGAGAGATGAGCGGAACCTGA 335

RESULT 11
US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-970-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACGTGCACAGAGAGATATAGAACTAGAGAGTCCATATACCGAGCTGTTCCTT 60
DB 1 CTCGACGTGCACAGAGAGAGATATAGAACTAGAGAGTCCATATACCTGTCTCCT 60
QY 61 ACCGAGAGAGCCCAACCTGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 GCTTGAAGAGAGCCCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CATGATGAACGCAAAAGGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGTCT 180
DB 121 CATGCAAAACGCAAGGAGGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGTCT 180
QY 181 CACCAACGATATGGGGAATACATCACTGCTACATCAAGGCGCTTGAAGCTC 240
DB 181 CACCAACGATATGGGGAATACATCACTGCTACATCAAGGCGCTTGAAGCTC 240
QY 241 AGCAGGAATAGTGGCCGCCACCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
DB 241 GCGGGGCAATGTTGCTCTCCACCAATGTTGTTGCGGCGACGACCTGTTGATCTCA 300
QY 301 GAGTCAGGAGAGTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGAGAGTCGAGAGAGACGACCGGAACCTGA 335

RESULT 12
US-09-878-281A-215
Sequence 215, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 215
LENGTH: 340

TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-215

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACGTGCACAGAGAGATATAGAACTAGAGAGTCCATATACCGAGCTGTTCCTT 60
DB 1 CTCGACGTGCACAGAGAGATATAGAACTAGAGAGTCCATATACCTGTCTCCT 60
QY 61 ACCGAGAGAGCCCAACCTGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 GCTTGAAGAGAGCCCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CATGATGAACGCAAAAGGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGTCT 180
DB 121 CATGATGAACGCAAAAGGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGTCT 180
QY 181 CACCAACGATATGGGGAATACATCACTGCTACATCAAGGCGCTTGAAGCTC 240
DB 181 CACCAACGATATGGGGAATACATCACTGCTACATCAAGGCGCTTGAAGCTC 240
QY 241 AGCAGGAATAGTGGCCGCCACCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
DB 241 GCGGGGCAATGTTGCTCTCCACCAATGTTGTTGCGGCGACGACCTGTTGATCTCA 300
QY 301 GAGTCAGGAGAGTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGAGAGTCGAGAGAGACGACCGGAACCTGA 335

RESULT 13
US-08-441-971-16
Sequence 16, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-971-16

Query Match 73.3%; Score 249.2; DB 3; Length 340;
Best Local Similarity 83.9%; Pred. No. 1.8e-69;
Matches 281; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCCATATACCGAGCTGTTCCTT 60
DB 1 CTCTACAGTCACGAGAGGAGATGAGAACCGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 ACCGAGCAGGCGCAGAACTGCGCATACCTGATGAGAGACTCTAGTGAAGGCGC 120
DB 61 GCTGAGAGGCTCGACATGCGCATACCTGATGAGAGCTGTACGTAGGAGGCGC 120
QY 121 CATGATGAACGCAAAAGGCGCAATCTGCGATACAGGCAATGCGCGCAGCGAGTGT 180
DB 121 CATGCAAAACAGCAAAAGGCGCAATCTGCGGATACAGGCGTGTGCGGAGCGAGTGT 180
QY 181 CACCCACGATATGGGGAATACCATCACTGCTACATCAAGGCCCTTAGCGGCTTTAAAGC 240
DB 181 CACCCACGATATGGGGAATACCATCACTGCTACATCAAGGCCCTTAGCGGCTTTAAAGC 240
QY 241 AGCAGAAATAGTGGCCCCCACCACATGCTGTGTGCGCGCATGACCTAGTTGTCTCAGA 300
DB 241 CGCGGCGATTTGTGCCCCCACCACATGTTGTGTGTGCGCGCAGACTTAGTGTCTCAGA 300
QY 301 GAGTCAGGAGTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGAGTCGAGAGAGATGAGCGAAACCTGA 335

RESULT 14
US-08-221-653-16

; Sequence 16, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF INVENTIONS: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-221-653-16

Query Match 73.3%; Score 249.2; DB 3; Length 340;
Best Local Similarity 83.9%; Pred. No. 1.8e-69;
Matches 281; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCCATATACCGAGCTGTTCCTT 60
DB 1 CTCTACAGTCACGAGAGGAGATGAGAACCGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 ACCGAGCAGGCGCAGAACTGCGCATACCTGATGAGAGACTCTAGTGAAGGCGC 120
DB 61 GCTGAGAGGCTCGAATGCGCATACCTGATGAGAGCTGTACGTAGGAGGCGC 120
QY 121 CATGATGAACGCAAAAGGCGCAATCTGCGATACAGGCAATGCGCGCAGCGAGTGT 180
DB 121 CATGCAAAACAGCAAAAGGCGCAATCTGCGGATACAGGCGTGTGCGCGAGCGAGTGT 180
QY 181 CACCCACGATATGGGGAATACCATCACTGCTACATCAAGGCCCTTAGCGGCTTTAAAGC 240
DB 181 CACCCACGATATGGGGAATACCATCACTGCTACATCAAGGCCCTTAGCGGCTTTAAAGC 240
QY 241 AGCAGAAATAGTGGCCCCCACCACATGCTGTGTGCGCGCATGACCTAGTTGTCTCAGA 300
DB 241 CGCGGCGATTTGTGCCCCCACCACATGTTGTGTGTGCGCGCAGACTTAGTGTCTCAGA 300
QY 301 GAGTCAGGAGTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGAGTCGAGAGAGATGAGCGAAACCTGA 335

RESULT 15
US-08-442-144A-16

; Sequence 16, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdia
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995

1 CLASSIFICATION: 435
 2 PRIOR APPLICATION DATA:
 3 APPLICATION NUMBER: 08/221,653
 4 FILING DATE: APRIL 1, 1994
 5 ATTORNEY/AGENT INFORMATION:
 6 NAME: Doreen Yachko Trujillo
 7 REGISTRATION NUMBER: 35,719
 8 REFERENCE/DOCKET NUMBER: CHIR-0121
 9 TELECOMMUNICATION INFORMATION:
 10 TELEPHONE: 215-568-3100
 11 TELEFAX: 215-568-3439
 12
 13 TELEX:
 14
 15 INFORMATION FOR SEQ ID NO: 16:
 16
 17 SEQUENCE CHARACTERISTICS:
 18
 19 LENGTH: 340 Nucleotides
 20 TYPE: Nucleic Acid
 21 STRANDEDNESS: Single
 22 TOPOLOGY: Linear
 23 MOLECULE TYPE: DNA
 24
 25 ORIGINAL SOURCE:
 26
 27 INDIVIDUAL ISOLATE: ns5arg6
 28
 29 US-08-442-144A-16

Query Match	73.3%	Score 249.2;	DB 3;	Length 340;
Best Local Similarity	83.9%;	Pred. No. 1.8e-69;		
Matches 281; Conservative	0;	Mismatches 54;	Indels 0;	Gaps 0;

OY	CTGACAGTCACGAGAGAGATATTAAGNCTGAGAGATCCATATACAGAGCTTTCCTT	60
Db	CTTCAACGTACGGAGAGGACATCAAGACGAGAGTCATCTATCTCTCTTACT	60
OY	ACCCGAGCAGGCCGAACTGCCATACATCATTTGACTGAGAGACTTACGTAGAGGGCC	120
Db	GCCTGAGAGAGGCTCGAATCTGCATACATCACTGACTAGAGGGCTGTACGTAGGGGGCC	120
OY	CATGATGAACAGCAAAAGGCAATCTTCGCGATACAGGCATTTGCCGCGCAGCGAGTGCT	180
Db	CATGACAAACAGCAAAAGGCAATCTTCGCGGTACAGGGCTTGCCGCGGACGGAAGTGCT	180
OY	CATCCACCAAGTATGGGGGAATTCATCATCGTGTCACTCAAGGCCCTTAGGGCTTTAAAC	240
Db	CACACCCACGATGGGTGTAACTCACTCACTGCTACGTGAACCTAAAGCGGATTTAAAC	240
OY	AGCAGGAATGATGGGCCCCACCATGCTGGTGTGCGGCATGACGTATGTTCATCTAGA	300
Db	CGCGGGCATTTGTGCCCCCAACATGTTGGTGTGCGGCACAGCACTGATGTCTATCTAGA	300
OY	GAGTCAGAGGATCGAGGAGGACGACCGGAACCTGA	335
Db	GAGTCAGAGGATCGAGGAGGATGAGGGAACCTGA	335

Search completed: January 11, 2006, 10:56:43
Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-71
Perfect score: 340
Sequence: 1 ctcaacgcctcacagagaggg.....acgagcgaacctcgagctc 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/ptodata/1/ina/5/ COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A/ COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B/ COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H/ COMB.seq: *
6: /cgn2_6/ptodata/1/ina/PTC/ COMB.seq: *
7: /cgn2_6/ptodata/1/ina/PP/ COMB.seq: *
8: /cgn2_6/ptodata/1/ina/RE/ COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	340	100.0	340	3	US-08-836-075A-71
2	278	81.8	340	3	US-08-836-075A-69
3	271.2	79.8	340	3	US-08-878-281A-145
4	269.6	79.3	340	3	US-08-836-075A-73
5	264.8	77.9	340	3	US-08-836-075A-79
6	264.8	77.9	2693	2	US-07-925-695-4
7	264.8	77.9	9589	2	US-07-925-695-1
8	264.8	77.9	9589	2	US-07-925-695-2
9	261.6	76.9	340	3	US-08-441-971-15
10	261.6	76.9	340	3	US-08-221-653-15
11	261.6	76.9	340	3	US-08-442-144A-15
12	261.6	76.9	340	3	US-08-441-970-15
13	256.4	75.4	340	3	US-08-441-971-13
14	256.4	75.4	340	3	US-08-221-653-13
15	256.4	75.4	340	3	US-08-442-144A-13
16	256.4	75.4	340	3	US-08-441-970-13
17	254.8	74.9	340	3	US-08-441-971-16
18	254.8	74.9	340	3	US-08-221-653-16
19	254.8	74.9	340	3	US-08-442-144A-16
20	254.8	74.9	340	3	US-08-441-970-16
21	246.8	72.6	340	3	US-08-878-281A-215
22	244	71.8	340	3	US-08-441-971-14
23	244	71.8	340	3	US-08-221-653-14
24	244	71.8	340	3	US-08-442-144A-14

25	244	71.8	340	3	US-08-441-970-14	Sequence 14, Appl
26	238.4	70.1	9511	2	US-07-925-695-6	Sequence 6, Appl1
27	238.4	70.1	9511	2	US-07-925-695-7	Sequence 7, Appl1
28	236.8	69.6	340	3	US-08-836-075A-77	Sequence 77, Appl
29	230.8	67.9	340	3	US-08-441-971-17	Sequence 17, Appl
30	230.8	67.9	340	3	US-08-221-653-17	Sequence 17, Appl
31	230.8	67.9	340	3	US-08-442-144A-17	Sequence 17, Appl
32	230.8	67.9	340	3	US-08-441-970-17	Sequence 17, Appl
33	228.6	67.2	340	3	US-08-836-075A-105	Sequence 105, App
34	223	65.6	335	3	US-08-836-075A-101	Sequence 101, App
35	213.6	62.8	340	3	US-08-836-075A-99	Sequence 99, Appl
36	162.4	47.8	340	3	US-08-836-075A-61	Sequence 61, Appl
37	162	47.6	340	3	US-08-836-075A-57	Sequence 57, Appl
38	160.4	47.2	340	3	US-08-836-075A-55	Sequence 55, Appl
39	159.2	46.8	340	3	US-09-878-281A-159	Sequence 159, App
40	157.6	46.4	1782	3	US-09-597-877-11	Sequence 11, Appl
41	156	45.9	340	3	US-08-441-971-8	Sequence 8, Appl1
42	156	45.9	340	3	US-08-221-653-8	Sequence 8, Appl1
43	156	45.9	340	3	US-08-442-144A-8	Sequence 8, Appl1
44	156	45.9	340	3	US-08-441-970-8	Sequence 8, Appl1
45	155.6	45.8	340	3	US-08-836-075A-97	Sequence 97, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-71
; Sequence 71, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-71

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 2,4e-94;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 CTCAACCGTCAAGAGAGGATATTAAGAACTGAGAGTCCATATTAACCTGCTCTCTT 60
    |||
Db 1 CTCAACCGTCAAGAGAGGATATTAAGAACTGAGAGTCCATATTAACCTGCTCTCTT 60
Qy 61 ACCGAGACAGGCCCGGAGCTGCGCATATTCATTATTAAGAGACTTTAAGTGGAGGGCC 120
    |||
Db 61 ACCGAGACAGGCCCGGAGCTGCGCATATTCATTATTAAGAGACTTTAAGTGGAGGGCC 120
Qy 121 CATGATGAACAGCAAAAGGGCAGTCTCGGATACAGCGCTTCCGCGCTTACGGAGTCT 180
    |||
Db 121 CATGATGAACAGCAAAAGGGCAGTCTCGGATACAGCGCTTCCGCGCTTACGGAGTCT 180
Qy 181 CACCAACGATATGGGGGAACACATCAAGTATATGTAAGAACCTTCGACGCTTGTAAAGC 240
    |||
Db 181 CACCAACGATATGGGGGAACACATCAAGTATATGTAAGAACCTTCGACGCTTGTAAAGC 240
Qy 241 TGGCGGCAATTTGTCCTCCCAAGATGCTGTGCGCGCATGACCTGTTGTATCTCAGA 300
    |||
Db 241 TGGCGGCAATTTGTCCTCCCAAGATGCTGTGCGCGCATGACCTGTTGTATCTCAGA 300
Qy 301 GAGTCAGGGGGCTGAGAGAGACAGCGCAACCTTGAGATC 340
    |||
Db 301 GAGTCAGGGGGCTGAGAGAGACAGCGCAACCTTGAGATC 340

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RESULT 2

US-08-836-075A-69
Sequence 69, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-69

Query Match 81.8%; Score 278; DB 3; Length 340;
Best Local Similarity 89.3%; Pred. No. 2.3e-75;
Matches 299; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

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Qy 1 CTCAACCGTCAAGAGAGGATATTAAGAACTGAGAGTCCATATTAACCTGCTCTCTT 60
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Db 1 CTCAACCGTCAAGAGAGGATATTAAGAACTGAGAGTCCATATTAACCTGCTCTCTT 60
Qy 61 ACCGAGACAGGCCCGGAGCTGCGCATATTCATTATTAAGAGACTTTAAGTGGAGGGCC 120
    |||
Db 61 ACCGAGACAGGCCCGGAGCTGCGCATATTCATTATTAAGAGACTTTAAGTGGAGGGCC 120
Qy 121 CATGATGAACAGCAAAAGGGCAGTCTCGGATACAGCGCTTCCGCGCTTACGGAGTCT 180
    |||
Db 121 CATGATGAACAGCAAAAGGGCAGTCTCGGATACAGCGCTTCCGCGCTTACGGAGTCT 180
Qy 181 CACCAACGATATGGGGGAACACATCAAGTATATGTAAGAACCTTCGACGCTTGTAAAGC 240
    |||
Db 181 CACCAACGATATGGGGGAATATCATCACTGCTTACATBAAGCCCTTACGCGCTTGTAAAGC 240
Qy 241 TGGCGGCAATTTGTCCTCCCAAGATGCTGTGCGCGCATGACCTGTTGTATCTCAGA 300
    |||
Db 241 AGCAGGAATAGTGGCCCCCAACATGCTGTGCGGGGAGTACCTAGTTGTATCTCAGA 300
Qy 301 GAGTCAGGGGGCTGAGAGAGACAGCGCAACCTTGAGATC 335
    |||
Db 301 GAGTCAGGGAGTGCAGAGAGACAGCGCAACCTTGGA 335

```

RESULT 3

US-09-878-281A-145
Sequence 145, Application US/09878281A
Patent No. 6762024

GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
TITLE OF INVENTION: and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 145
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-145

Query Match 79.8%; Score 271.2; DB 3; Length 340;
Best Local Similarity 87.4%; Pred. No. 2.8e-73;
Matches 297; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

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Qy 1 CTCAACCGTCAAGAGAGGATATTAAGAACTGAGAGTCCATATTAACCTGCTCTCTT 60
    |||
Db 1 CTCAACCGTCAAGAGAGGATATTAAGAACTGAGAGTCCATATTAACCTGCTCTCTT 60
Qy 61 ACCGAGACAGGCCCGGAGCTGCGCATATTCATTATTAAGAGACTTTAAGTGGAGGGCC 120
    |||
Db 61 ACCGAGACAGGCCCGGAGCTGCGCATATTCATTATTAAGAGACTTTAAGTGGAGGGCC 120
Qy 121 CATGATGAACAGCAAAAGGGCAGTCTCGGATACAGCGCTTCCGCGCTTACGGAGTCT 180
    |||
Db 121 CATGATGAACAGCAAAAGGGCAGTCTCGGATACAGCGCTTCCGCGCTTACGGAGTCT 180

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Query Match	77.9%	Score 264.8	DB 3	Length 340
Best Local Similarity	86.2%	Pred. No. 2.6e-71		
Matches 293	0	Mismatches 47	Indels 0	Gaps 0

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QY      1 CTCAACGCTCACAGAGGAGATATTAAGACTGAGAGTCCATATTAACCTGACCTGCTCTT 60
      11 |||||
Db      1 CTCAACGCTCACAGAGGAGATATTAAGAGTCCATATTAACCTGACCTGCTCTT 60
QY      61 ACCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
      61 |||||
Db      61 ACCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
QY      121 CATGATGAACAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
      121 |||||
Db      121 CATGATGAACAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
QY      181 CACCAACGATATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
      181 |||||
Db      181 CACCACTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
QY      241 TGGCGGATGTTGTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
      241 |||||
Db      241 TGGCGGATGTTGTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY      301 GAGTCAGGGGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
      301 |||||
Db      301 GAGTCAGGGGAGCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
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```
RESULT 6
US-07-925-695-4
; Sequence 4, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEFAX: WUI 64470
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2693 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-4
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Query Match 77.9%; Score 264.8; DB 2; Length 2693;
Best Local Similarity 86.2%; Pred. No. 5.3e-71;
Matches 293; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY      1 CTCAACGCTCACAGAGGAGATATTAAGACTGAGAGTCCATATTAACCTGACCTGCTCTT 60
      11 |||||
Db      1 CTCAACGCTCACAGAGGAGATATTAAGAGTCCATATTAACCTGACCTGCTCTT 60
QY      2334 CTCAACCGTCACTGAGAGACATCAAGACTGAGAGGAGTCCATATTAACCTGCTCTT 2393
      2334 |||||
Db      2334 CTCAACCGTCACTGAGAGACATCAAGACTGAGAGGAGTCCATATTAACCTGCTCTT 2393
QY      61 ACCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
      61 |||||
Db      61 ACCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
QY      121 CATGATGAACAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
      121 |||||
Db      121 CATGATGAACAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
QY      2454 CATGTTCAACAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2513
      2454 |||||
Db      2454 CATGTTCAACAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2513
QY      2514 TACCACTAGCATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2573
      2514 |||||
Db      2514 TACCACTAGCATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2573
QY      241 TGGCGGATGTTGTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
      241 |||||
Db      241 TGGCGGATGTTGTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY      2574 TGCAGGATATATGCGCCCAAGTGTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2633
      2574 |||||
Db      2574 TGCAGGATATATGCGCCCAAGTGTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2633
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RESULT 7
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEFAX: WUI 64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
```


RESULT 8
 US-07-925-695-2
 Sequence 2, Application US/07925695
 Patent No. 5428145
 GENERAL INFORMATION:
 APPLICANT: OKAMOTO, Hiroaki
 APPLICANT: NAKAMURA, Tetsuo
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 TITLE OF INVENTION: DETECTION SYSTEMS
 NUMBER OF INVENTION: 9
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Beveridge, Degrandi, Weilacher & Young
 STREET: 1850 M Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: US
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/925, 695
 FILING DATE: 19920807
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Weilacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:

QY	1	CTCAACCGTCA	CAGAGAGGGATTA	TAAACCTG	AGAGATTCAT	TAAACCTG	GGCTGCTCTT	60
Db	8341	CTCAACCGTCA	CTGAGAGAGACAT	CAAGACTGA	GAGATTCAT	TATGCGGCTTG	CTTCTT	8400
QY	61	AACCGACAGAGCCCGG	ACTGCATACAT	TTCACTTAACTG	AGAGACTTTAACTG	GGGAGGGCC	120	
Db	8401	GCCCCGAGAGGCCCA	CTGCTGCATAC	CTCACTGAC	TGAGAGACTTTACG	TG99AGGGCC	8460	
QY	121	CATGATGAACAGCA	AGGAGGCGATCT	CGGATACAGGCGT	TGACCGCGCTAG	CGAGAGTGC	180	
Db	8461	CATGTTCAACGAC	AGAGGGCCAGACTG	CGGGTTACGGCGGTT	GCCGCGC	CAGCGGGGTCT	8520	
QY	181	CACCAACAGTATGGG	GAACACATCACTG	TATGTGTAAGG	CCCTCCGAGCTT	GTAAAGC	240	
Db	8521	TACACACTAGCATGG	GGGAACACCATCA	CACTGTATGTAA	AGCCCTTAGCGGCT	GTAAAGC	8580	
QY	241	TGCGGGCATTTGTTG	CCCCCGACGAT	CTGTGTGTGCGG	CGATGACCTGTGTT	CATCTCAGA	300	
Db	8581	TGCGGGATTAATTC	CGCCCCCAATAGCT	GTGTATGTATGCGG	CGATGACTTTG	GTTCATCTCAGA	8640	
QY	301	GAGTCAGAGGGCT	TAGAGAGACGAG	CGGAACCTG	TAGAGTCT	340		
Db	8641	GAGCCAGGGAGCC	GAGAGAGACGAG	CGGAACCTG	TAGAGTCT	8680		

RESULT 9
 US-08-441-971-15
 Sequence 15, Application US/08441971
 Patent No. 6071693
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,971
 FILING DATE: 16-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,653
 FILING DATE:
 APPLICATION NUMBER: US/07/881,528
 FILING DATE:
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55110
US-08-441-971-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2,4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCACCGGTACAGAGGGATATPAAGACTGAGAGTCCATATPACTGCTGCTCCTT 60
DB 1 CTCTACAGTACAGAGGGACATCAGAACCGAGAGTCCATCTATCTGCTGCTCCT 60
QY 61 ACCGAGCAGGCGCGGAGTGCATACATCTAATTAAGAGACTTTAAGGGAGGCC 120
DB 61 GCCGAGAGAGGCCGGAATGCTATPACTCACTAGAGACTGTAAGGGAGGCC 120
QY 121 CATATGAACAAGCAAGGGAGTCTCGGATACAGGCGTTGCGCGTACGGAGTCT 180
DB 121 CATACAAACAGCAAGGGGCAATCTGCGGATACAGGCGTTGCGCGGAGAGTCT 180
QY 181 CACCACGATATGGGAAACACCATCAGCTTATGTGAAGCCCTCCGAGCTTTAAAGC 240
DB 181 CACCACGATATGGGCAACAGCTCAGCTCAGCTGAAGCCAGAGCGGCGTAAAGC 240
QY 241 TGCGGGCATTTGTCGCCACGATGCTGTGGGGGAGATGCGTGTTCATCTCAGA 300
DB 241 CGCGGGCATTTGTCGCCACGATGCTGTGGGGGAGATGCGTGTTCATCTCAGA 300
QY 301 GAGTCAGGGGGCTGAGAGAGAGCGAAGCTGAGAGTC 340
DB 301 GAGTCAGGGGGTCAAGAGAGATGAGCGGAGCTGAGAGTC 340

RESULT 10
US-08-221-653-15
Sequence 15, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55110
US-08-221-653-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2,4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCACCGGTACAGAGGGATATPAAGACTGAGAGTCCATATPACTGCTGCTCCTT 60
DB 1 CTCTACAGTACAGAGGGACATCAGAACCGAGAGTCCATCTATCTGCTGCTCCT 60
QY 61 ACCGAGCAGGCGCGGAGTGCATACATCTAATTAAGAGACTTTAAGGGAGGCC 120
DB 61 GCCGAGAGAGGCCGGAATGCTATPACTCACTAGAGACTGTAAGGGAGGCC 120
QY 121 CATATGAACAAGCAAGGGAGTCTCGGATACAGGCGTTGCGCGTACGGAGTCT 180
DB 121 CATACAAACAGCAAGGGGCAATCTGCGGATACAGGCGTTGCGCGGAGAGTCT 180
QY 181 CACCACGATATGGGAAACACCATCAGCTTATGTGAAGCCCTCCGAGCTTTAAAGC 240
DB 181 CACCACGATATGGGCAACAGCTCAGCTCAGCTGAAGCCAGAGCGGCGTAAAGC 240
QY 241 TGCGGGCATTTGTCGCCACGATGCTGTGGGGGAGATGCGTGTTCATCTCAGA 300
DB 241 CGCGGGCATTTGTCGCCACGATGCTGTGGGGGAGATGCGTGTTCATCTCAGA 300
QY 301 GAGTCAGGGGGCTGAGAGAGAGCGAAGCTGAGAGTC 340
DB 301 GAGTCAGGGGGTCAAGAGAGATGAGCGGAGCTGAGAGTC 340

RESULT 11
US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ms5110
US-08-442-144A-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2.4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCAACCGTCAAGAGAGGATATTAAGACTGAGAGCTGCATATATACCTGCTGCTCTT 60
DB 1 CTCTACAGTCAAGAGAGGACATCAAGACCGAGAGCTCATCTATCTGCTGCTCACT 60
QY 61 ACCGAGAGAGGCGGAGCTGCTCATCATCTATTAACTGAGAGATTAACTGGAGAGGCGC 120
DB 61 GCGTGAAGAGGCGGAGCTGCTCATCTACTGAGAGCTGATGAGAGGAGGCGC 120
QY 121 CATGATGAACAGAAAGGAGCTGCTGCGATACAGGCGTTCGCGCTAGCGAGTGTCT 180
DB 121 CATGACAAACAGAGAGGCGCATCTCGGGTACAGGCGTTCGCGCGAGCGAGTGTCT 180
QY 181 CACCAACAGTATGGGAAACACCATCAGCTGTATTATGTAAAGCCCTCGAGCTGTAAAGC 240
DB 181 CACCAACAGATGGGAAACAGCTCAGCTGTACTGTAAGCCAGAGCGGCTGTAAAGC 240
QY 241 TGGGGGATTTGCCCCCAAGATGCTGTGTGTGCGGAGTGAAGCTGTGTCTCATCTAGA 300
DB 241 CGCGGGATTTGCTCCCAACATGTTGTGTGTGCGGAGTGAAGCTGTGTCTCATCTAGA 300
QY 301 GAGTCAGGGGCTGAGAGAGCAGCGAAACCTGAGAGTC 340
DB 301 GAGTCAGGGGCTGAGAGAGTGAAGTGAAGCTGAGAGTC 340

RESULT 12
US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts

COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ms5110
US-08-441-970-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2.4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCAACCGTCAAGAGAGGATATTAAGACTGAGAGCTGCATATATACCTGCTGCTCTT 60
DB 1 CTCTACAGTCAAGAGAGGACATCAAGACCGAGAGCTCATCTATCTGCTGCTCACT 60
QY 61 ACCGAGAGGCGGAGCTGCTCATCATCTATTAACTGAGAGATTAACTGGAGAGGCGC 120
DB 61 GCGTGAAGAGGCGGAGCTGCTCATCTACTGAGAGCTGATGAGAGGAGGCGC 120
QY 121 CATGATGAACAGAAAGGAGCTGCTGCGATACAGGCGTTCGCGCTAGCGAGTGTCT 180
DB 121 CATGACAAACAGAGAGGCGCATCTCGGGTACAGGCGTTCGCGCGAGCGAGTGTCT 180
QY 181 CACCAACAGTATGGGAAACACCATCAGCTGTATTATGTAAAGCCCTCGAGCTGTAAAGC 240
DB 181 CACCAACAGATGGGAAACAGCTCAGCTGTACTGTAAGCCAGAGCGGCTGTAAAGC 240
QY 241 TGGGGGATTTGCCCCCAAGATGCTGTGTGTGCGGAGTGAAGCTGTGTCTCATCTAGA 300
DB 241 CGCGGGATTTGCTCCCAACATGTTGTGTGTGCGGAGTGAAGCTGTGTCTCATCTAGA 300
QY 301 GAGTCAGGGGCTGAGAGAGCAGCGAAACCTGAGAGTC 340
DB 301 GAGTCAGGGGCTGAGAGAGTGAAGTGAAGCTGAGAGTC 340

RESULT 13
US-08-441-971-13
Sequence 13, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k2
US-08-441-971-13

Query Match      75.4%; Score 256.4; DB 3; Length 340;
Best Local Similarity 84.9%; Pred. No. 9.6e-69;
Matches 287; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

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1 CTCAACCGTCACAGAGGAGATATAAGACTGAGAGTCCATTAATCTGCTCTCTCTT 60
 1 CTCAACCGTCACAGAGGAGATATAAGACTGAGAGTCCATTAATCTGCTCTCTCTT 60
 61 ACCGAGAGAGGCGGAGCTGCGATATCACTTAATGAGAGCTTTACGTTGAGAGGCC 120
 61 GCTGAGAGAGGCTCACTTCCATTAATCTGCTGAGAGCTTTACGTTGAGAGGCC 120
 121 CATGATGAACAGCAAGGCGAGTCTGCGATATCAAGGCTTTGCGGCTAGCGAGTCT 180
 121 CATGATGAACAGCAAGGCGAGTCTGCGGATATCAAGGCTTTGCGGCTAGCGAGTCT 180
 121 CATGATGAACAGCAAGGCGAGTCTGCGGATATCAAGGCTTTGCGGCTAGCGAGTCT 180
 181 CACCACTAGATGAGGAGCAACCATCACTATGTTAAAGCCCTTAGGCGCTTCAAGGC 240
 181 CACCACTAGATGAGGAGCAACCATCACTATGTTAAAGCCCTTAGGCGCTTCAAGGC 240
 241 TGCGGAGATGTTGCCCCCAGATGCTGTTGCGGCGATGACCTGTTGTCATCTAGA 300
 241 TGCGGAGATGTTGCCCCCAGATGCTGTTGCGGCGATGACCTGTTGTCATCTAGA 300
 301 GAGTCAGGGGCTGAGAGAGCAAGCGAAACCTGAGAG 338
 301 GAGTCAGGGGCTGAGAGAGCAAGCGAAACCTGAGAG 338

RESULT 14
 US-08-221-653-13

```

Sequence 13, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k2
US-08-221-653-13

Query Match      75.4%; Score 256.4; DB 3; Length 340;
Best Local Similarity 84.9%; Pred. No. 9.6e-69;
Matches 287; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

```

1 CTCAACCGTCACAGAGGAGATATAAGACTGAGAGTCCATTAATCTGCTCTCTCTT 60
 1 CTCAACCGTCACAGAGGAGATATAAGACTGAGAGTCCATTAATCTGCTCTCTCTT 60
 61 ACCGAGAGAGGCGGAGCTGCGATATCACTTAATGAGAGCTTTACGTTGAGAGGCC 120
 61 GCTGAGAGAGGCTCACTTCCATTAATCTGCTGAGAGCTTTACGTTGAGAGGCC 120
 121 CATGATGAACAGCAAGGCGAGTCTGCGATATCAAGGCTTTGCGGCTAGCGAGTCT 180
 121 CATGATGAACAGCAAGGCGAGTCTGCGGATATCAAGGCTTTGCGGCTAGCGAGTCT 180
 121 CATGATGAACAGCAAGGCGAGTCTGCGGATATCAAGGCTTTGCGGCTAGCGAGTCT 180
 181 CACCACTAGATGAGGAGCAACCATCACTATGTTAAAGCCCTTAGGCGCTTCAAGGC 240
 181 CACCACTAGATGAGGAGCAACCATCACTATGTTAAAGCCCTTAGGCGCTTCAAGGC 240
 241 TGCGGAGATGTTGCCCCCAGATGCTGTTGCGGCGATGACCTGTTGTCATCTAGA 300
 241 TGCGGAGATGTTGCCCCCAGATGCTGTTGCGGCGATGACCTGTTGTCATCTAGA 300
 301 GAGTCAGGGGCTGAGAGAGCAAGCGAAACCTGAGAG 338
 301 GAGTCAGGGGCTGAGAGAGCAAGCGAAACCTGAGAG 338

Db 301 AACCGAGGAGCTGAGGAGACGACGCGAACTTGAGAG 338

RESULT 15

US-08-442-144A-13
Sequence 13, Application US/08442144A
Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k2
US-08-442-144A-13

Query Match 75.4%; Score 256.4; DB 3; Length 340;

Best Local Similarity 84.9%; Pred. No. 9.6e-69;
Matches 287; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 CTCAACCGTCAACAGAGGATATAGAACTGAGAGTCCATATACCTGGCTGCTCCTT 60
Db 1 CTCAACCGTCACTGAGAGACATCAGAACTGAGAGTCCATATACCGAGCTGCTCCTT 60
QY 61 ACCGAGAGAGCCCGGACTGCGCATACATTCTTAAGAGAGATTAACTGGAGGGGCT 120
Db 61 GCGTGAAGAGGCTCACTTGGCATACACTGCTGACTGAGAGGCTTACGTTGGAGGGGCT 120
QY 121 CATGATGAACAGCAAGGAGGAGTCTGCGGATACAGGGGTTGCGCGCTAGCGGAGTCT 180
Db 121 CATGTTCAACAGCAAGGAGGAGTCTGCGGATACAGGGGTTGCGCGCTAGCGGAGTCT 180
QY 181 CACCACAGTATGGGAAACACCATCACGTGTTATGTAAAGCCCTGCGAGCTGTAAAGC 240
Db 181 CACCACAGTATGGGAAACACCATCACGTGTTATGTAAAGCCCTGAGGGCTTCAAGGC 240

QY 241 TCGGGGATTTGTTGCCCCACAGATGCTGTGTCGGCGATGACCTGTTGTCATTCAGA 300
Db 241 TCGAGGGATGTTGCAACCTCAATGCTGTATGCGGCGAGCACTTACTTCACAGA 300
QY 301 GACTCAGGGGCTGAGAGAGACGAGGAAACCTGAGAG 338
Db 301 AACCGAGGAGCTGAGAGAGACGAGGAAACCTGAGAG 338

Search completed: January 11, 2006, 10:56:44
Job time: 83.331 secs

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ANTI-SENSE: NO
US-08-836-075A-73

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1,7e-97;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 CTCAACAGTCCGGAGAGACATCAGAGACCGAGAGTTCATTTCCTTGCTGCTCTT 60
DB 1 CTCAACAGTCCGGAGAGAGACATCAGAGACCGAGAGTTCATTTCCTTGCTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAACTGCCATTCATTTCAGAGACTTTACGTAGAGAGGCC 120
DB 61 ACCGAGCAAGCCCGAACTGCCATTCATTTCAGAGACTTTACGTAGAGAGGCC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCCGCCAGCGAGTCT 180
DB 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCCGCCAGCGAGTCT 180
QY 181 CACCAACAGCATGGGGAAATACATCATGCTATGTGAAGGATTAGCTGCGCAAGC 240
DB 181 CACCAACAGCATGGGGAAATACATCATGCTATGTGAAGGATTAGCTGCGCAAGC 240
QY 241 TGCAGGATCGTTGCTCCACAGATCGTGTGTTGCGCAGCATCTGATCATCTCAGA 300
DB 241 TGCAGGATCGTTGCTCCACAGATCGTGTGTTGCGCAGCATCTGATCATCTCAGA 300
QY 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTC 340
DB 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTC 340
```

RESULT 2

US-08-836-075A-71

Sequence 71, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 71:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 79.3%; Score 269.6; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 2.9e-75;
Matches 296; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

```
QY 1 CTCAACAGTCCGGAGAGACATCAGAGACCGAGAGTTCATTTCCTTGCTGCTCTT 60
DB 1 CTCAACAGTCCGGAGAGAGATATAGAACTGAGAGTCCATATACCTTGCTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAACTGCCATTCATTTCAGAGACTTTACGTAGAGAGGCC 120
DB 61 ACCGAGCAAGCCCGAGCTGCCATTCATTTCAGAGACTTTACGTAGAGAGGCC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCCGCCAGCGAGTCT 180
DB 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCCGCCAGCGAGTCT 180
QY 181 CACCAACAGCATGGGGAAATACATCATGCTATGTGAAGGATTAGCTGCGCAAGC 240
DB 181 CACCAACAGCATGGGGAAATACATCATGCTATGTGAAGGATTAGCTGCGCAAGC 240
QY 241 TGCAGGATCGTTGCTCCACAGATCGTGTGTTGCGCAGCATCTGATCATCTCAGA 300
DB 241 TGCAGGATCGTTGCTCCACAGATCGTGTGTTGCGCAGCATCTGATCATCTCAGA 300
QY 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTC 340
DB 301 GAGTCAGGAGGCTGAGAGAGACGAGCAACCTGAGAGTC 340
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RESULT 3

US-09-878-281A-145

Sequence 145, Application US/09878281A

Patent No. 6762024

GENERAL INFORMATION:

APPLICANT: Immunogenetics N.V.

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophyl

TITLE OF INVENTION: and therapy

FILE REFERENCE: 35

CURRENT APPLICATION NUMBER: US/09/878,281A

CURRENT FILING DATE: 2001-06-12

NUMBER OF SEQ ID NOS: 284

SOFTWARE: PatentIn version 3.1

SEQ ID NO 145

LENGTH: 340

TYPE: DNA

ORGANISM: hepatitis C virus

US-09-878-281A-145

Query Match 77.9%; Score 264.8; DB 3; Length 340;
Best Local Similarity 86.2%; Pred. No. 9.5e-74;
Matches 293; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY 1 CTCAACAGTCCGGAGAGACATCAGAGACCGAGAGTTCATTTCCTTGCTGCTCTT 60
DB 1 CTCAACAGTCCGGAGAGAGATATAGAACTGAGAGTCCATATACCTTGCTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAACTGCCATTCATTTCAGAGACTTTACGTAGAGAGGCC 120
DB 61 ACCGAGCAAGCCCGAGCTGCCATTCATTTCAGAGACTTTACGTAGAGAGGCC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCCGCCAGCGAGTCT 180
DB 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCCGCCAGCGAGTCT 180
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	Query Match	76.9%	Score 261.6;	DB 2;	Length 2693;
	Best Local Similarity	85.6%;	Pred. No. 2.2e-72;		
	Matches 291; Conservative	0;	Mismatches 49;	Indels 0;	Gaps - 0
Qy	1	CTCAACAGTCGGGAGAGAGATCATGAGCCGAGGACATTAACTTGCCTCCTTT			60
Db	2334	CTCAACCGTCATCTGAAGAGAGACATCAGGACTGAGAGTCATTAATATGGCGCTGTTCCTT			239
Qy	61	ACC CGAGCAAGCCCCA CTGCATCATTTCA TTGCTGAGAGACTTTTACGTA GGA GG GCC			120
Db	2394	GCCCGAGAGGCCCACTGCTCCATCACTCACTGATGAGAGACTTTAACG TGG AGG GCC			245

Query Match	76.9%	Score 261.6	DB 2	Length 9589
Best Local Similarity	70.9%	Prid. No. 3.6e-12		
Matches 241	Conservative 50	Mismatches 49	Indels	Gaps 0
QY	1	CTCAACAGTCCGAGAGACATCAAGACCCGAGAGTCCATTTCCTTGCCTGCTCTT	60	

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Db      8341 CUCAACCGUCACUGAGAGACAUCAUGAGACUGAGAGUCUAUUAUCCGGGCUUUCUU 8400
Qy      61 ACCGAGCAAGCCGGAACCTGCATCATTTGACTGAGAGACTTACCTGAGAGGCC 120
Db      8401 GCCCAGAGAGGCCACACUCGCAUACACUCGACUGAGACUUAAGGCGAGGCC 8460
Qy      121 CATGATGAACAGCAGAGGAGCAGTCTCTGCTTACAGACGTTGCCCGCAGCGAGTCT 180
Db      8461 CAUGUUCACACAGCAGAGGCCACACUCGCGGUAACAGCGCUCUCCGCCAGCGGGUGU 8520
Qy      181 CACCAACGACATGGGGAATACATCATCTATGTAAAGCATTAAGCTGCTGCAAAAGC 240
Db      8521 UACCACTAGCAGUGGGGAAACACCAUCAUGCUAUGGAAAGCCUUAAGCCGCUAAGGC 8580
Qy      241 TGCAGGCACTGCTGCTCCAGATGCTGGTTGTGGCGACGATCTGTCATCATCTCAGA 300
Db      8581 UCGACGGAUAUUGGCCCCACCAUUGUGUGGCGCGAGUAGCUGUGUUCUUCACAGA 8640
Qy      301 GAGTCAGGGAACCGAGAGATGATGCGGAACCTGAGAGTC 340
Db      8641 GAGCCAGGGGACCGAGAGAGACGAGCGGAACCTGAGAGCC 8680

RESULT 6
US-07-925-695-2
; Sequence 2, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-2
Query Match 76.9%; Score 261.6; DB 2; Length 9589;
```

```
Beet Local Similarity 85.6%; Pred. No. 3.6e-72;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy      1 CTCAACAGTCCCGGAGAGACATCAGACCCAGAGATTCATTACTTGCTGCTCCTT 60
Db      8341 CTCAACCGTCACTAGAGAGACATCAGACTGAGAGTCCATATATAGGGCTTGTCTT 8400
Qy      61 ACCGAGCAAGCCGGAACCTGCATCATTTGACTGAGAGACTTACCTGAGAGGCC 120
Db      8401 GCCCAGAGAGGCCACACACTGCTCATATCACTCATCTGACTGAGAGACTTAACTGAGAGGCC 8460
Qy      121 CATGATGAACAGCAGAGGAGCAGTCTCTGCTTACAGACGTTGCCCGCAGCGAGTCT 180
Db      8461 CATGTTCAACAGCAGAGGCCACAGCTTGCGGTACAGGCGTTGCCCGCAGCGGGTCT 8520
Qy      181 CACCAACGACATGGGGAATACATCATCTATGTAAAGCATTAAGCTGCTGCAAAAGC 240
Db      8521 TACCACTAGCAGUGGGGAAACACCAUCAUGCUAUGGAAAGCCUUAAGCCGCUAAGGC 8580
Qy      241 TGCAGGCACTGCTGCTCCAGATGCTGGTTGTGGCGACGATCTGTCATCATCTCAGA 300
Db      8581 TGCAGGATATTTGCGCCCAATGCTGTATGCGGCGATGACTTGGTTGTCATCTCAGA 8640
Qy      301 GAGTCAGGGAACCGAGAGATGATGCGGAACCTGAGAGTC 340
Db      8641 GAGCCAGGGGACCGAGAGAGACGAGCGGAACCTGAGAGCC 8680

RESULT 7
US-08-836-075A-69
; Sequence 69, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBRT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
```

```

; MOLECULE TYPE: CDNA
;
; HYPOTHETICAL: NO
;
; ANTI-SENSE: NO
US-08-836-075A-69

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Query Match	75.6%;	Score 257.2;	DB 3;	Length 340;
Best Local Similarity	85.4%;	Pred. No. 2.4e-71;		
Matches 286;	Conservative	0;	Mismatches 49;	Indels 0;
			Gaps	0

QY	CTCAACAGTGGCCGAGAGAGACATCAAGGACCCAGAGAGTCAATTACCTTGGCTCTCTCTT	60
QY	CTCAACAGTGGCCGAGAGAGACATCAAGGACCCAGAGAGTCAATTACCTTGGCTCTCTCTT	60
Db	1 CTGCACAGTCAACAGAGAGAGATATAAGNACTGAGAGTCCATATACCAAGCTTGTCTCTT	60
QY	61 ACCCGAGCAAGCCCCGAACTGCCATATATTCATTTAGCTAGAGACTTTTACGTAGAGAGGCC	120
Db	61 ACCCGAGCAAGCCCCGAACTGCCATATATTCATTTAGCTAGAGACTTTTACGTAGAGAGGCC	120
QY	121 CATGATGAAACAGCAAGGAGACAGTCTCTGCAGTTTACAGACTTGCCTGCGCGACAGCGAGTCT	180
Db	121 CATGATGAAACAGCAAGGAGACAGTCTCTGCAGTTTACAGACTTGCCTGCGCGACAGCGAGTCT	180
QY	121 CATGATGAAACAGCAAGGAGACAGTCTCTGCAGTTTACAGACTTGCCTGCGCGACAGCGAGTCT	180
Db	121 CATGATGAAACAGCAAGGAGACAGTCTCTGCAGTTTACAGACTTGCCTGCGCGACAGCGAGTCT	180
QY	181 CACCAACAGCATGGGGGAATACCATCAACGTCATATGTGAAGGATATAGTGGCTGCTCAAGC	240
Db	181 CACCAACAGCATGGGGGAATACCATCAACGTCATATGTGAAGGATATAGTGGCTGCTCAAGC	240
QY	181 CACCAACAGCATGGGGGAATACCATCAACGTCATATGTGAAGGATATAGTGGCTGCTCAAGC	240
Db	181 CACCAACAGCATGGGGGAATACCATCAACGTCATATGTGAAGGATATAGTGGCTGCTCAAGC	240
QY	241 TGCAGGCAATGTGGCTCCACGATGCTGTTTGTGGCAGCATCTGTCATCATCTCAGA	300
Db	241 AGCAGGAAATGTGGCCCCCACCATCTGTGGTGTGGCGGCATGACTTAATTGTTCATCTCAGA	300
QY	301 GAGTCAGGGAAACCGAAGAGGATGAGCGGAAACCTGA	335
Db	301 GAGTCAGGGAGTGAAGAGAGACACCGGAAACCTGA	335

RESULT 8
US-08-836-075A-79

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRES:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004

```

? INFORMATION FOR SEQ ID NO: 79
?
? SEQUENCE CHARACTERISTICS:
?
? LENGTH: 340 base pairs
?
? TYPE: nucleic acid
?
? STRANDEDNESS: single
?
? TOPOLOGY: linear
?
? MOLECULE TYPE: cDNA
?
? HYPOTHEETICAL: NO
?
? ANTI-SENSE: NO
?
US-08-836-075A-79
```

Query Match	74.6%;	Score 253.6;	DB 3;	Length 340;
Best Local Similarity	84.1%;	Pred. No. 3.3e-70;		
Matches 286;	Conservative 0;	Mismatches 54;	Indels 0;	Gaps 0;

Oy	CTCAACAGTGGGAGAGAGACATAGGACCGAGAGGCACTTAACTTCGCTGCTCTT	60
Db	CTCAACAGTCACGAGAGGAGCATAGGAAAGAGGCACTATCTCTGGCTGCTGTT	60
Oy	ACCCGAGCAAGCCCGCACTGCATCATTTCACTTGACTAGAGACTTTACGTAGGAGGGCC	120
Db	GCCCGAGAGGCCCCGAGCTGTCTATTCATTCCTGCTCACTGAGAGACTTACATAGCGGGCC	120
Oy	CATGATGAACAGCAAGGACAGTCTCTGGGTTTACAAGACTTGCCTCCGACGACGGAGTGCT	180
Db	GATGATGAACAGGAAGAAGCGCAAGTCTGTGGATACAGGGGTTGTGTGGCCACAGCGGGTGTT	180
Oy	CACCCACGACATGGGGATACCATCACTGCTATGTGTAAGGCATTAGCTGCTGCAAAAGC	240
Db	CACCACTACATAGGGCAATACCATCACTGCTATGTGTAAGCCATGCGACACTTGCAGAGC	240
Oy	TGAGAGCAATCGTTTGCTCCACAGATGCTGCTTTGTGGGACGATCTGTGTCATCAATCCAGA	300
Db	TGCGGGATTTGACGCCCCCAATGTTGTGTATGTGGCACGACCTGTGTGTCAATCTCAGA	300
Oy	GAGTCAGGAAACGAGAGAGATGAGCGGACCTGAGATC	340
Db	GAGTCAGGGACCGAGAGAGACGAGCAATCTTGAAGATC	340

RESULT 9
US-08-441-971-15
Sequence 15, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P. C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-971-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1.1e-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGACATCAGACCGAGAGTCCATTACCTTGCTGCTCCTT 60
DB 1 CTTACAGTCAAGAGAGGACATCAGAACCGAGAGTCCATTACCTTGCTGCTCCT 60
QY 61 ACCGAGAGCCCGACATGCTCATTCATTGATGAGAGCTTTACGTAAGAGGCGC 120
DB 61 GCTGAGAGGCCCGACATGCTCATTCATTGATGAGAGCTTTACGTAAGAGGCGC 120
QY 121 CATGATGAACGACAGAGGACAGTCTGCGGTTACAGAGCTTGC CGCGCAGCGAGTGTCT 180
DB 121 CATGACAAACGACAGAGGACATCTGCGGTTACAGAGGCTTGC CGCGCAGCGAGTGTCT 180
QY 181 CACCAACGATGGGGAATACCATCATCTATGTAAAGCATTAAGTCTGCTCAAGC 240
DB 181 CACCAACGATGGGGAATACCATCATCTATGTAAAGCATTAAGTCTGCTCAAGC 240
QY 241 TGCAGGATCGTTGCTCCACGATGCTGTTGTGGCGACGATCTGTCATCATCTCAGA 300
DB 241 CGCGGATGTTGCTCCACGATGCTGTTGTGGCGACGATCTGTCATCATCTCAGA 300
QY 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340
DB 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340

RESULT 10
US-08-221-653-15
Sequence 15, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1.1e-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGACATCAGACCGAGAGTCCATTACCTTGCTGCTCCTT 60
DB 1 CTTACAGTCAAGAGAGGACATCAGAACCGAGAGTCCATTACCTTGCTGCTCCT 60
QY 61 ACCGAGAGCCCGACATGCTCATTCATTGATGAGAGCTTTACGTAAGAGGCGC 120
DB 61 GCTGAGAGGCCCGACATGCTCATTCATTGATGAGAGCTTTACGTAAGAGGCGC 120
QY 121 CATGATGAACGACAGAGGACAGTCTGCGGTTACAGAGCTTGC CGCGCAGCGAGTGTCT 180
DB 121 CATGACAAACGACAGAGGACATCTGCGGTTACAGAGGCTTGC CGCGCAGCGAGTGTCT 180
QY 181 CACCAACGATGGGGAATACCATCATCTATGTAAAGCATTAAGTCTGCTCAAGC 240
DB 181 CACCAACGATGGGGAATACCATCATCTATGTAAAGCATTAAGTCTGCTCAAGC 240
QY 241 TGCAGGATCGTTGCTCCACGATGCTGTTGTGGCGACGATCTGTCATCATCTCAGA 300
DB 241 CGCGGATGTTGCTCCACGATGCTGTTGTGGCGACGATCTGTCATCATCTCAGA 300
QY 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340
DB 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340

RESULT 11
US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1,1e-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCAACAGTCCGGAGAGAGACATCAGAGCCGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTTACAGTCTCAGAGAGGAGACATCAGAACGAGAGTCCATCTATCTGCTCTCACT 60
QY 61 ACCGAGAGAGCCGAGACATGCTCATCTATGCTAGAGACTTTCGTAGAGAGGdC 120
DB 61 GCTGAGAGAGCCGAGACATGCTATACCTCACTAGAGACTGTAAGAGGAGGdC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGTTGCCGCGCAGGAGAGTGT 180
DB 121 CATGACAAACAGCAAGGAGGACATCTCGCGGTACAGGCGTTGCCGCGAGGAGAGTGT 180
QY 181 CACCAACAGCATGGGAAATACCATCAATGCTATGTGAAGGATTAGCTGCTGCAAdC 240
DB 181 CACCAACAGCATGGGCAACAACGCTCAGTGTCTAGTAAAGCAGAGCGGCGTAAAdC 240
QY 241 TGCAGGATCGTGTCTCCCAAGATCTGTTTGTGTGGCAGCATCTGTGCATCATCTCAdA 300
DB 241 CGCGGCAATGTGTCTCCCAACCATGTGTGTGTGGCGAGCAGCTGTGTGTATCTCAdA 300
QY 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTCTC 340
DB 301 GAGTCAGGAGGCTCGAGAGATGAGCGGAACCTGAGAGTCTC 340

RESULT 12
US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
CITY: Boston
STATE: Massachusetts

COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-970-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1,1e-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCAACAGTCCGGAGAGAGACATCAGAGCCGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTTACAGTCTCAGAGAGGAGACATCAGAACGAGAGTCCATCTATCTGCTCTCACT 60
QY 61 ACCGAGAGAGCCGAGACATGCTCATCTATGCTAGAGACTTTCGTAGAGAGGdC 120
DB 61 GCTGAGAGAGCCGAGACATGCTTATACCTCACTAGAGACTGTAAGAGGAGGdC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGTTGCCGCGCAGGAGAGTGT 180
DB 121 CATGACAAACAGCAAGGAGGACATCTCGCGGTACAGGCGTTGCCGCGAGGAGAGTGT 180
QY 181 CACCAACAGCATGGGAAATACCATCAATGCTATGTGAAGGATTAGCTGCTGCAAdC 240
DB 181 CACCAACAGCATGGGCAACAACGCTCAGTGTCTAGTAAAGCAGAGCGGCGTAAAdC 240
QY 241 TGCAGGATCGTGTCTCCCAAGATCTGTTTGTGTGGCAGCATCTGTGCATCATCTCAdA 300
DB 241 CGCGGCAATGTGTCTCCCAACCATGTGTGTGTGTGGCGAGCAGCTGTGTGTATCTCAdA 300
QY 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTCTC 340
DB 301 GAGTCAGGAGGCTCGAGAGATGAGCGGAACCTGAGAGTCTC 340

RESULT 13
US-08-441-971-13
Sequence 13, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k2
US-08-441-971-13

Query Match      73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1.4e-68;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY      1 CTCACAGTCCGGGAGAGAGACATCAGACCGAGAGTTCATTTCCTGCTCCTT 60
DB      1 CTCACCGTCACTGAGAGAGACATCAGACTGAGAGTTCATTACCGAGCTGCTCCT 60
QY      61 ACCGAGCAAGCCCGAAGTCCATCATTCATTGACTGAGAGCTTTAGTAGAGGGCC 120
DB      61 GCTTAGAGAGCTTCACTTGCATACCTGCTGACTGAGAGGCTTACGTGGAGGGCC 120
QY      121 CATGTGAACAGCAAGGAGCAGTCTGCGGTTCACAGCGTTGCCGCGCAGGAGTGT 180
DB      121 CATGTTCACACAGAGGGCCAGACCTGCGGTACAGCGTTGCCGCGCAGGAGTGT 180
QY      181 CACCAACAGCATGGGGAAATACCATCATCTATGTGAAGGCAATTAAGTCTGCAAGC 240
DB      181 CACCACTAGCATGGGGAAACATCATCATGTATGTAAAGCCCTAAGCGGCTTGCAAGGC 240
QY      241 TGCAGGCATCGTTGCTCCACAGTGTGTTGTGGCGAGCATCTGTCATCATCTCAGA 300
DB      241 TGCAGGATAGTTGCACTCCTCATGTGTGTATGCGGCGAGCATTAAGTTGTATCTCAGA 300
QY      301 GAGTCAGGGAACCGAGAGATGAGCGAAGCTGAGAG 338
DB      301 AAGCAGGGGAGCTGAGAGAGAGAGCGAAGCTGAGAG 338

RESULT 14
US-08-221-653-13
```

```

Sequence 13, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k2
US-08-221-653-13

Query Match      73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1.4e-68;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY      1 CTCACAGTCCGGGAGAGACATCAGACCGAGAGTTCATTTCCTGCTCCTT 60
DB      1 CTCACCGTCACTGAGAGAGACATCAGACTGAGAGTTCATTACCGAGCTGCTCCT 60
QY      61 ACCGAGCAAGCCCGAAGTCCATCATTCATTGACTGAGAGCTTTAGTAGAGGGCC 120
DB      61 GCTTAGAGAGCTTCACTTGCATACCTGCTGACTGAGAGGCTTACGTGGAGGGCC 120
QY      121 CATGTGAACAGCAAGGAGCAGTCTGCGGTTCACAGCGTTGCCGCGCAGGAGTGT 180
DB      121 CATGTTCACACAGAGGGCCAGACCTGCGGTACAGCGTTGCCGCGCAGGAGTGT 180
QY      181 CACCAACAGCATGGGGAAATACCATCATCTATGTGAAGGCAATTAAGTCTGCAAGC 240
DB      181 CACCACTAGCATGGGGAAACATCATCATGTATGTAAAGCCCTAAGCGGCTTGCAAGGC 240
QY      241 TGCAGGCATCGTTGCTCCACAGTGTGTTGTGGCGAGCATCTGTCATCATCTCAGA 300
DB      241 TGCAGGATAGTTGCACTCCTCATGTGTGTATGCGGCGAGCATTAAGTTGTATCTCAGA 300
QY      301 GAGTCAGGGAACCGAGAGATGAGCGAAGCTGAGAG 338
DB      301 AAGCAGGGGAGCTGAGAGAGAGAGCGAAGCTGAGAG 338
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Db 301 AAGCCAGGGGACTGAGAGAGACGAGCGGAACCTGAGAG 338

RESULT 15

US-08-442-144A-13

; Sequence 13, Application US/08442144A
; Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148

CORRESPONDENCE ADDRESS:

ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:

NAME: Doreen Yalco Trujillo

REGISTRATION NUMBER: 35,719

REFERENCE/DOCKET NUMBER: CHIR-0121

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-568-3100

TELEFAX: 215-568-3439

TELEX:

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 Nucleotides

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5k2

US-08-442-144A-13

Query Match 73.1%; Score 248.4; DB 3; length 340;

Best Local Similarity 83.4%; Pred. No. 1.4e-68;

Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

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Db 1 CTCACCGTCACTGAGAGACATGAGAGTCATTGCTGCTCCTT 60

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Db 61 GCTGAGAGGCTCACTTGCATTAACCTGCTGAGAGCTCTACGTGGAGGdC 120

QY 121 CATGATGAACAGCAGGAGCAGTCTGCGGTACAGACCTTCCGCCAGCGAGTGT 180

Db 121 CATGTTCAACAGCAGGAGCAGACCTGCGGGTACAGGCGTTGCCGCCAGCGGdC 180

QY 181 CACCAACGAGATGGGATATCATCATGCTATGTGAAGGATTAGCTGCTGCAAGC 240

Db 181 CACCACTGACATGGGATATCATCATGCTATGTGAAGGCTTAAAGCCCTTAAAGGdC 240

QY 241 TGCAGCATCGTGTGCTCCACGATGCTGTTTGTGCGACGATCTGTCATCATCTCAGA 300

Db 241 TGCAGGATAGTTGACCCCTCAATGCTGTATGCGGCGACGACTTAGTGTCTCTCAGA 300

QY 301 GAGTCAGGAAACGAGAGATGAGCGGAACTTGAAG 338

Db 301 AAGCCAGGGGACTGAGAGAGACGAGCGGAACCTGAGAG 338

Search completed: January 11, 2006, 10:56:44
Job time : 82.331 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 289.369 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-75

Perfect score: 1195

Sequence: 1 cgnacancctccagcagccccc.....taacggggccctgatgng 1195

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents, NA:*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB, seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB, seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB, seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB, seq:*
- 6: /cgn2_6/ptodata/1/ina/PC/US COMB, seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB, seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB, seq:*
- 9: /cgn2_6/ptodata/1/ina/Backfile1, seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1173	98.2	1195	US-08-836-075A-75	Sequence 75, Appl
2	879	73.6	9589	US-07-925-695-1	Sequence 1, Appl
3	879	73.6	9589	US-07-925-695-2	Sequence 2, Appl
4	836.2	70.0	9511	US-07-925-695-6	Sequence 6, Appl
5	836.2	70.0	9511	US-07-925-695-7	Sequence 7, Appl
6	747.4	62.5	9472	US-08-150-204E-96	Sequence 96, Appl
7	747.4	62.5	9595	US-09-014-416-4	Sequence 4, Appl
8	747.4	62.5	9599	US-09-014-416-6	Sequence 6, Appl
9	741	62.0	1863	US-08-470-426B-14	Sequence 14, Appl
10	737.8	61.7	2116	US-08-191-160-21	Sequence 21, Appl
11	731.4	61.2	1499	US-08-324-977-3	Sequence 3, Appl
12	731.4	61.2	1499	US-08-384-616-3	Sequence 3, Appl
13	731.4	61.2	1499	US-08-904-686A-3	Sequence 3, Appl
14	731.4	61.2	1499	US-09-315-850-3	Sequence 3, Appl
15	731.4	61.2	9416	US-08-324-977-1	Sequence 1, Appl
16	731.4	61.2	9416	US-08-384-616-1	Sequence 1, Appl
17	731.4	61.2	9416	US-08-904-686A-1	Sequence 1, Appl
18	731.4	61.2	9416	US-09-315-850-1	Sequence 1, Appl
19	731.4	61.2	9416	US-08-823-895A-27	Sequence 27, Appl
20	722.4	60.5	9413	US-09-827-688-6	Sequence 6, Appl
21	715.4	59.9	1863	US-08-470-426B-13	Sequence 13, Appl
22	711	59.5	9365	US-09-827-688-7	Sequence 7, Appl
23	711	59.5	12980	US-08-811-566-5	Sequence 5, Appl
24	711	59.5	12980	US-09-034-756-5	Sequence 5, Appl

25	709.8	59.4	9401	6	PCT-US91-02225-9
26	709.4	59.4	9416	3	US-08-823-895A-26
27	709.4	59.4	9416	3	US-10-104-966-13
28	709.4	59.4	9416	3	US-09-929-955-13
29	709.4	59.4	9599	3	US-09-014-416-2
30	709.4	59.4	9646	3	US-08-811-566-1
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32	709.4	59.4	10803	3	US-10-259-275-17
33	708.2	59.3	9379	3	US-08-444-818-176
34	707.8	59.2	9185	3	US-08-444-818-122
35	707.8	59.2	9185	3	US-08-444-818-123
36	707.8	59.2	9379	3	US-09-388-874-1
37	707.8	59.2	9379	3	US-09-916-359-1
38	707.8	59.2	9401	2	US-07-910-760-9
39	707.8	59.2	9401	2	US-08-440-519-9
40	707.8	59.2	9401	3	US-08-440-549-9
41	707.8	59.2	9401	3	US-08-823-895A-25
42	707	59.2	957	3	US-09-878-281A-143
43	704.6	59.0	9401	2	US-08-432-693-1
44	704.6	59.0	9416	3	US-08-811-566-19
45	704.6	59.0	9416	3	US-09-034-756-19

ALIGNMENTS

RESULT 1
US-08-836-075A-75
; Sequence 75, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1195 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-75

Query Match 98.2%; Score 1173; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 CGNACANCTCCAGGCCCCCTCCCGGAGAGCCATGAGTGTGCGGGAACCGGTG 60
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DB 1141 CCAGGACTGTAAGTCTTCATCTACCGGCGCAACATACGAGGCTCGTATGNG 1195

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RESULT 2
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145

GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSER: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91

FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462

TELEX: WUI 64470
INFORMATION FOR SEO ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-1

Query Match 73.6%; Score 879; DB 2; Length 9589;
Best Local Similarity 66.5%; Pred. No. 2; 9e-265;
Matches 795; Conservative 196; Mismatches 204; Indels 0; Gaps 0;

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DB 103 CGUACAGCCUCCAGGCCCCCTCCCGGAGAGCCAUAGUGUCUGCGGAACCGGUGAG 162
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QY      481 TCCTGGGCGCTGTATGGGAGCAGAGGCTCGGGTGGGCGAGGAGGCTCTGCTCCCGCG 540
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QY      541 GGGGCGCGCGCGCTGATGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 600
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Db      643 AGGUGCCCGGUCUUCUUGGGGCGCCCAUAGACCCCGGAGUAGGUCGCGAAGUGGGAGAA 702
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QY      601 GGTCAATCAATACCTCAGCTGTCGCTTTCGACCTCAATGGGGTATCATTTCCGCTGTTG 660
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Db      703 GGUCAUUGAGUACCUAAGGUGGCGCUUUGCGGACCUCAUAGGGGUAUACUUGGUGAG 762
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Db      883 GGUUAUUDUGCAACAGGAGACUUAACCGGUGGUCUUCUUAUUCUUGGUGGAGCCU 942
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QY      901 TACAGTCTGATGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 960
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QY      961 AGTCAAGCCGACGAGTGAAGGAGCGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020
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QY      1021 CATGCAACACCATGAGCGTCCGCAACATTTTGTCTGCTCTCAATAGGAGATGATG 1080
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Db      1123 CAUUAACAUUGUGUAGUUGCCGCAACGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGG 1182
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QY      1081 TGGCGCGATTAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      1183 CGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGG 1242
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      1141 CGAGACTGTAATGCTTCACTTACCCGCGGCAATACGAGGCGCTGATG 1195
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Db      1243 GCAAGACUGCAUUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGG 1297
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
RESULT 3
US-07-925-695-2
Sequence 2, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSER: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: MWI 64470
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2
Query Match 73.6%; Score 879; DB 2; Length 9589;
Best Local Similarity 82.6%; Pred. No. 2.9e-265;
Matches 987; Conservative 4; Mismatches 204; Indels 0; Gaps 0;
QY      1 CGAAGCCTTCAGAGCCCGCCCTCCCGGAGAGACATAGTGTCTCGGAACCGGTGAG 60
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      103 GGTACAGCTTCAGAGCCCGCCCTCCCGGAGAGACATAGTGTCTCGGAACCGGTGAG 162
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      61 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGGATTAACCACTATGCCCCGGC 120
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      163 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGGATTAACCACTATGCCCCGGT 222
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      121 CATTGGGCGTGGCCCGGCAAGACTGCTTARCCGAGTACGTTGGGTGCGAAAGCCCTTG 180
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      223 CATTGGGCGTGGCCCGGCAAGACTGCTTARCCGAGTACGTTGGGTGCGAAAGCCCTTG 282
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      181 TGTACTGCTGATAGGAGTGTGCTGAGTGGCGGAGAGGCTCTGAGACCGTGCATCAT 240
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      283 TGTACTGCTGATAGGAGTGTGCTGAGTGGCGGAGAGGCTCTGAGACCGTGCATCAT 342
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      241 GAGCAAAATCTTAATCTTAAGAAAAAACAAGAAAAAACAATAACCCGCGCCACAGAGA 300
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Db      343 GAGCAAAATCTTAACCTCAAAAGAAAAACAAAAGAACCAACCGTCCGACCAAGA 402
Qy      301 CGTTAAGTTCCCGGGCGGTGGCCAGATGTTGGCGAGATATCTTTGTTCCCTGACAGGG 360
Db      403 CGTTAAGTTTCGGGGCGGCGGCAATGTTGGCGGAGATATCTTTGTTCCCGGAGGGG 462
Qy      361 NCCGAGTNGTATGTCGCAACGANGAAGACTNCCGAAAGTCCGACGCACTGGAG 420
Db      463 CCCGAGTTGGTGTGCGCGCAACAAGAAAGCTTCGAGCGGTCCGACGCTGGAG 522
Qy      421 GCGCCAGCCCATCCGAAAGATCGANGCAACACTG3CAAATCTTGG3GAGCGTCCAGATA 480
Db      523 GCGCCAGCCCATCCCTTAAGATCGCGCTCCACTG3CAAATCTTGG3GAGAAAAACAGATA 582
Qy      481 TCCCGGCGCCGTATGAGGAAGAGGGGCTCGGGTGGGAGAGGTGGCTCTCCCGCG 540
Db      583 CCGCGGCGCCGTATAGGAAATGAGGAGACTCGGCTGGGCGAGGATGGCTCTGTCGCGCG 642
Qy      541 GGGCTCCGCGCGGTATGAGGGGCGGACCGGCGCAATAGGTGCGCAACTTGGGTA 600
Db      643 AGGTTCCGCTCCTTGGGGGCGCCCAATGATCCCGGATAGTCCCGCAAGTGGTA 702
Qy      601 GGTATGATACCTCTCAGCTNCGGCTTTCGACCTCATGAGGTAATTCCTCGTGG 660
Db      703 GGTATGATACCTCTCAGCTNCGGCTTTCGACCTCATGAGGTAATTCCTCGTGG 762
Qy      661 GCGCCGAGAGGCGCTGCGCAAGCTCTCGCGATGCGCGTAAGTCTGGAGAGAG 720
Db      763 GCGCCGCTGCGGCGCTGCGCAAGCTCTCGCGATGCGCGTAAGTCTGGAGAGAG 822
Qy      721 GATAAATATGAAAGAGGAACTTCCCGGTTGCTCTTCTCTATCTCTCTCTGCTCT 780
Db      823 GGTAAATTTGAAAGAGGAACTTACCGGTTGCTCTTCTCTATCTCTCTCTGCTCT 882
Qy      781 TCTGCTGTAATTACCGGCGCAATTTCTGCTGTAATCAAAAACACGAAACATA 840
Db      883 GCTGCTGCACTACACCGCGGCTCTCGGCTCGCAAGTGAAGAACATCAGTACCGGCTA 942
Qy      841 CATGCTGACTAAGCACTGTTCAACAGTATCATCTGCGAGCTTNNNNNGCGGTGCT 900
Db      943 CATGCTGACTAAGCACTGCAACCAATGATAGCTATCTGCGCAACTCAGGCTGCTCT 1002
Qy      901 TCACGTTCTGATGCTGCTGCTGTAAGAGAGGAGCAAGTCCCGGCTGCTGATTC 960
Db      1003 CCACTTCCCGGCTGCTGCTGCGAAGAAATGAGGAAATATCTCGGTGCTGATAC 1062
Qy      961 AGTCAAGCCCAAGTAKNCGTGAGCGCACTGCTGCTTACCGAGGCTTTCGATCGCA 1020
Db      1063 GGTCTCACCGAATGTCGCTGACAGCGCCGCGCTCAGCGAGGCTTTCGAGCGCA 1122
Qy      1021 CATGCAACCATGTAAGGTTCGCGCAACATTTGTTCTGCTCTTACATAGAGGATGTA 1080
Db      1123 CATTAACATGTTGATGATTCGCAAGCTGCTGCTCTTTCATGTTGGGAGACTCTG 1182
Qy      1081 TGGCGCATTAATGATAGCTGCCAAGTGGTCACTGCTGCGGAGCATCATCTTTGT 1140
Db      1183 CGGTGGGATGATGCTTGACGCCAGATATGTTCTGCGCAACCACTGTTGT 1242
Qy      1141 CCAGGACTGTAACTGTTTCATCTTACCCGCGCAATACGAGGCTCTGATGTA 1195
Db      1243 GCAGAGCTGCAATGCTCTCATCTACCTGTTACATCACTGACACCGGATGGC 1297

```

RESULT 4
US-07-925-695-6
Sequence 6, Application US/07925695
Patent No. 5428145

GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Teisuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
POLYPEPTIDES, ANTIBODY AND

```

; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Beveridge, Degrandi, Weillacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-6

Query Match 70.0%; Score 836.2; DB 2; Length 9511;
Best Local Similarity 63.9%; Pred. No. 8.4e-252;
Matches 762; Conservative 203; Mismatches 227; Indels 0; Gaps 0;

Qy      1  CGNACANCTCTCAGAGCCCGCCCTCCCGGAGAGCCATAGTGTCTGCGGAACCGGTGAG 60
Db      104  CGUACAGCTCUCAGAGCCCGCCCTCCCGGAGAGCCAUAGUGUCUGCGAACCAGUGAG 163
Qy      61  TACACCGGAATTGCGGGAAGACTGAGTCTTTCTTGGATAAACCACTATAGCCCGGC 120
Db      164  UACACCGGAATUACCGGAAGAGACUGGGUCCUUCUGGAUAAACCACTUAGUCCGGU 223
Qy      121  CATTGGGCGTGGCCCGGCAAGACTGCTARCCGATGACGTTGGGTTGCCAAGGCTTG 180
Db      224  CAUUGGGCACGCCCCGCAAGACUGGCUAGCCGAGUGCGUGGGUUGCGAAAGGCUUG 283
Qy      181  TGGTACGCTGATAGGAGTGTGCGAGTGCCCGGAGAGGCTGCTGAGACGTCATCAT 240
Db      284  UGUAUCGCGUAAGGAGGURCUUGCGAGUGCCCGGAGGUCUGUGAUCGUGCAUCAU 343
Qy      241  GAGCAAAATCTTAACCTCAAGAAAAACAAAAGAAACACTAACCGCGGCCACAGGA 300
Db      344  GAGCAAAAUUCUAAACCTUCAAAGAAAAACAAAAGAAACAACAACCGCGGCCACAGGA 403
Qy      301  CGTTAAGTTCCCGGGCGGTGGCCAGATGTTGGCGGAGTATCTTTGTTCCCTGACAGGG 360
Db      404  CGTUAAGUCCCGGGGCGGCGGUCAGACGUGGCGGAGUUAUCUGGCGCGCGCACAGGG 463
Qy      361  NCCGAGTNGTATGTCGCAACGANGAAGACTNCCGAAAGTCCGACGCACTGGAG 420
Db      464  CCCGAGGUGGUGGCGCGCAAGAGAGACUUCYAGAGAACCCAGCGCGGUGGAG 523
Qy      421  GCGCAGCCCATCCCGAAAGATCGANGCAACCACTGGAAGTCTTGGGAGCGTCCAGATA 480

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Db	524	ACGCGACGCCAATCCCAAGAAATGCGCGTCCACCGGCAAGTCTGCGGGAAGGACGAGAAUA	563
Qy	481	TCCCTGCGCCCTGTATGGGAAAGAGGGCTCGGATGGGACAGTGGCTCTGTCCCCCG	540
Db	584	UCCUGGCCCCCTGUAAGGAAAGAGGGTUGCGGCTGGGGGGTGGCTGCTGCCCCCG	643
Qy	541	GGGCTCCCGCCGCTCATGGGGCCCCACGGACCCCGGCAATAGTGGCGCAATTGGGTAA	600
Db	644	CGGTCUCCGCTCUACUUGGGGCCCCACCGACCCCGGCAUAGUACCGCAAUUUUGGCGAG	703
Qy	601	GGATCATGATACCTCAGCGTGGCGCTTTCGCACTCATGGGGGTACATTCGCCGCTGGG	666
Db	704	AGCATCAGAAACCAUUAACGUGGUGUUUUGCCGACCUAGGGGUAACCCUGCGUUUG	763
Qy	661	CGGCCAGTAGGNGGCGTGCACGAGACTTCGCGATGAGCGTGAAGATCTGAGAGACGG	720
Db	764	CGCCCGGUGTGGAGGGCGTCCCGAGAGCTUCGACACGAGUUAAGGUGCTCGAGAGACGG	823
Qy	721	GATAAATATAGAAACAGGGAACCTCCCGGTTGCTCTTCTCTATCTCCCTCTTGCTCT	780
Db	824	GAUAAAUUAAGCAACAGGGAAUUAACCGGUGUGUCUUUUUUAUUCUUUUUGUGUCUCU	883
Qy	781	TCTGTCTGAATTAACGAGCCAGTTTCTGTGTGAAAAATCAAAAACACAGAAACACATA	840
Db	884	UCUGUCAUGCGUACARUCGAGUGUCUGCAUGGAAAGUACAGAAACATUAGUUAAGCUA	943
Qy	841	CATGTGATCTAAAGACTGTTCAAAACAGTAGCATCACTGGCAGCTTNNGNCGGGTCGT	900
Db	944	CUACGCCACUAAAGAUUGUCUAAAACAAACGACUACCTGGGAGGUCUACUGACGAGUUCU	1000
Qy	901	TCAAGTTCTGAGTAGGCGTCCCGCTGTAAGAGAGGGCAACGTTCCCGGTCGATGCC	960
Db	1004	CAUUCUUCUGAGUGGUGUCCCAUGUGAAGAAATGAUAAATGGCACCUUGCRUUCUGGAUACA	1060
Qy	961	AGTCAAGCCCRACGTAKNKGTAAGCGACCTGGTCCCTTAACGAGGGTTTGGCATGCA	1020
Db	1064	AGUAAACCCRACGUGGCGUGUAAACACCGGGUGCGUCUUGUGACUGGACACACACA	1120
Qy	1021	CATGCAACCAATCTGAGCGTCCGCAACATTTTGTCTGCTCTCATATAGGGAGTGTATG	1080
Db	1124	CGUGCGACUAGUAGUAAUGGACAGUACGCGCGUGCGGCTUUUUAUGGGAAGUUGUGG	1180
Qy	1081	TGGCGCGAATAATATAGCTGCCCAAGTGTATCTCTCGCCGAGATATATCATCTTTGT	1140
Db	1184	CGGGCGGUAUAGUVCUAUCGAGCGUUCUAGUGUAACACCAACGCCCAACUUCAC	1240
Qy	1141	CGAGACTGTAACTGTTCACTGACCCGGGCGACATAACGGGGCGCTGGTATG	1192
Db	1244	CGAAGUGGCAUUGUCCAUUCACCAAGUUCACUACCGGCAUUGCGAGG	1295

RESULT 5
 US-07-925-695-7
 : Sequence 7, Application US/07925695
 : Patent No. 5428145
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: OKAMOTO, Hiroaki
 : APPLICANT: NAKAMURA, Tetsuo
 : TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 : TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 : TITLE OF INVENTION: DETECTION SYSTEMS
 :
 : NUMBER OF SEQUENCES: 9
 :
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Beveridge, DeGrandi, Weiacher & Young
 : STREET: 1850 M Street, N.W., Suite 800
 : City: Washington
 : STATE: D.C.
 : COUNTRY: US
 : ZIP: 20036
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible

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1      OPERATING SYSTEM: PC-DOS/MS-DOS
2      SOFTWARE: PatentIn Release #1.0, Version #1.25
3      CURRENT APPLICATION DATA:
4      APPLICATION NUMBER: US/07/925,695
5      FILING DATE: 19920807
6      CLASSIFICATION: 435
7      PRIOR APPLICATION DATA:
8      APPLICATION NUMBER: JP 287402/91
9      FILING DATE: 09-AUG-1991
10     PRIOR APPLICATION DATA:
11     APPLICATION NUMBER: JP 360441/91
12     FILING DATE: 05-DEC-1991
13     ATTORNEY/AGENT INFORMATION:
14     NAME: Weilacher, Robert G.
15     REGISTRATION NUMBER: 20,531
16     REFERENCE/DOCKET NUMBER: 06/87-48009
17     TELECOMMUNICATION INFORMATION:
18     TELEPHONE: (202) 659-2811
19     TELEFAX: (202) 659-1462
20     TELEX: WUI 64470
21     INFORMATION FOR SEQ ID NO: 7:
22     SEQUENCE CHARACTERISTICS:
23     LENGTH: 9511 base pairs
24     TYPE: NUCLEIC ACID
25     STRANDEDNESS: single
26     TOPOLOGY: linear
27
28     US-07-925-695-7

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	Query Match	70.0%;	Score 836.2;	DB 2;	Length 9511;
	Best Local Similarity	80.2%;	Pred. No. 8.4e-252;		
	Matches	956;	Conservative	9;	Mismatches 227; Indels 0; Gaps 0;
QY	1	CGNAGNCCTTCAGAGCCCCCCCCCTCCCGGAGACCACTAGTGTCTCGCGGACCGGATGAG	60		
Db	104	CGTCAACCTTCAGAGCCCCCCCCCTCCCGGAGAGCCATAGTGTCTTCGGAAACCGGTAG	163		
QY	61	TACACCGGAATTGCGCGGGAAGACTGGGTCTCTTCTTGATTAACCCCACTGATGCCCCGGC	120		
Db	164	TACACCGGAATTACCGGAAGACTGGGTCTCTTCTTGATTAACCCCACTGATGTCCGGT	223		
QY	121	CATTGGGCGTGCCTCCCGCAAGACTGCTTACCGAGTAGCGTTGGGTTGCCAAAGGCTTTG	180		
Db	224	CATTGGGCAAGCCCCCGCAAGACTGCTTACCGAGTAGCGTTGGGTTGCCAAAGGCTTTG	283		
QY	181	TGTAATCTGCTGATAGGGTCTTTCGAGTGCCTCCCGGAGGTCTTCGTAGACCTGTGCATCAT	240		
Db	284	TGTAATCTGCTGATAGGGTCTTTCGAGTGCCTCCCGGAGGTCTTCGTAGACCTGTGCATCAT	343		
QY	241	GAGCACAATCTCTTAACTCTAAAGAAAACCAAAAGAAACACTTAAACCGCGCCACACGA	300		
Db	344	GAGCACAATCTCTTAACTCTAAAGAAAACCAAAAGAAACCAAAACCGCGCCACACGA	403		
QY	301	CGTTAAGTTCCTCCGGCGGTGCGCAAGTCTTTGCGGAGTACTTGTTCCTGTGCAGAGG	360		
Db	404	CGTTAAGTTCCTCCGGGTGCGGTGAGATCGTTGCGGAGTACTTGTTCGTGCGCAAGG	463		
QY	361	NCCAGGTGNGTNTATAGCGCAACGAGAGACTNCCGACACATCTCCAGGACCGTGGAG	420		
Db	464	CCCAAGGTGAGTGTGCGCGCAAGAGAAAGACTTCTTGACCGATCCCAAGCGGTGGAGC	523		
QY	421	GCGCACACCATATCCGAAAGATCGAGNCAACACTGCGAATCTCTGGGAGCGTCCAGAGTA	480		
Db	524	ACGCACACCATATCCGAAAGATGGCGCTCAACGCGAATCTCTGGGGAAGGACAGGATA	583		
QY	481	TTCCTGGCCCCCTGTATATGGGAACGAGGCGCTTCGGGTGGGACGGGTGCTCTTGTTCCTCCG	540		
Db	584	TCTTGGCCCCCTGTATATGGGAACGAGGCTTTCGGGTGGGAGGCTTGTTCCTCCG	643		
QY	541	GAGGTCCCGCCGTCATAGGGGACCAACGAGACCCCGGCATAGGTGCGCAACTTGGGTA	600		
Db	644	CGGGTCTCTGTCTTACTTGGGGCCCAACGAGACCCCGGCATAGATCAAGCAATTTGGGAG	703		
QY	601	GGTATCATATCCCTCAAGTNGCGCTTTNCGACCTCATGGGTAATTCCTCGTCTTGG	660		

|||||
Db AGTCATCATACCATTAAGTGTGTTTGCCAGCTCATGGGGTACATCCCTGTGTGG 763
704
QY CGCCCACTAGAGGCGTCCGACAGCTTCGCGATGCGCGTGAAGTCTCGAGAGG 720
661
Db CGCCCGGTGGAGGCTCGCGAGCTTCGCAACAGGTGTAGGGTCTCGAGAGG 823
764
QY GATAAATAATGAGGAACTCCCGGTGTCTTTCTCTATCTCCCTCTGTCT 780
721
Db GATAAATAATGAGGAACTTTTACCGGTGTCTTTCTCTATCTTTTCTGTCT 883
824
QY TCTGTCTGAATTCAGGCGAGCTTTCTGTGTGAATCAAAACACCAAGAACATA 840
781
Db TCTGTCAAGCTGACATGCTGAGTCTGCAATGAGAACATATGTTCTAGCTA 943
884
QY CATGTGATACGACTGTTCAGAGTACACCTGCGAGCTTNNNGCGCTCT 900
841
Db CTACGCACTAATGATGTCTAAACAGCATCTGCGAGCTCACTGACGAGTTCT 1003
944
QY TCACGCTCTGATGCTGCTGCTGTAACGAGAGGCAACAGTCCCGTGTGATTC 960
901
Db CCATCTCTGTGATGCTGCTGCTGTAACGAGTGTGCTGCTGCTGCTGATACA 1063
1004
QY AGTCAAGCCCGACGATKACGTGAGCGGAGCTGTGCTGCTGCTGCTGCTGCTGCA 1020
961
Db AGTCAAGCCCGACGATGCTGAGAACACCGGCTGCTGCTGCTGCTGCTGCTGCA 1123
1064
QY CATGACACCATGCTGAGCTCGCGAACATTTTCTGTGCTGCTGCTGCTGCTGCTG 1080
1021
Db GCTGACATGATGCTGATGAGTGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1183
1124
QY TGGCCGATATGATAGTGTCCCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
1081
Db CGGGCCGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1243
1184
QY CCAGACGCTAATCTGTTCCATCTTACCGGCGCAATACGGGCGCTGCTGCTGCT 1192
1141
Db CCAGACGCTAATCTGTTCCATCTTACCGGCGCAATACGGGCGCTGCTGCTGCT 1244
1244

RESULT 6
US-08-150-204E-96
; Sequence 96, Application US/08150204E
; Patent No. 6538126
GENERAL INFORMATION:
APPLICANT: CHO, Joong Myung
LEE, Yong Beom
PARK, Young Woo
LIM, Kook Jin
CHOI, Deog Young
SO, Hong Seob
KIM, Chun Hyung
KIM, Sung Taek
YANG, Jae Young
TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: YANG, Jae Young
STREET: 386-1, Doryong-dong, Yuseong-gu
CITY: Daejeon
STATE: Daejeon
COUNTRY: Republic of Korea
ZIP: 305-340
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
COMPUTER: IBM PC/pentium
OPERATING SYSTEM: Windows
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/150,204E
FILING DATE: 20-Apr-1994
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:

APPLICATION NUMBER: KR 91-9510
FILING DATE: 10-JUN-1991
APPLICATION NUMBER: KR 91-13601
FILING DATE: 6-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Shahan Islam, Esq.
REGISTRATION NUMBER: 32,507
REFERENCE/DOCKET NUMBER: 2695/FLK
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 940-8564
TELEFAX: (212) 940-8776
INFORMATION FOR SEQ ID NO: 96
SEQUENCE CHARACTERISTICS:
LENGTH: 9472 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
MOLECULE TYPE: DNA
FEATURE:
OTHER INFORMATION: KHCV-LBCL, Fig. 2
SEQUENCE DESCRIPTION: SEQ ID NO: 96
US-08-150-204E-96
Query Match 62.5%; Score 747.4; DB 3; Length 9472;
Best Local Similarity 75.8%; Pred. No. 7.3e-224;
Matches 904; Conservative 4; Mismatches 284; Indels 0; Gaps 0;
1 CGMNCANCTTCAGAGCCCCCCCCCTCCGGGAGAGCCATGATGCTCGGAAACGGGTGAG 60
Db CGTGAAGCTTCAGAGCCCCCCCCCTCCGGGAGAGCCATGATGCTCGGAAACGGGTGAG 164
105
QY TACACCGGAATTCGCGGAAAGACTGGTCTTTCTTGATTAACCACTATGCGCGGC 120
61
Db TACACCGGAATTCGCGGAAAGACTGGTCTTTCTTGATTAACCACTATGCGCGGC 224
165
QY CATTGGGCGTGGCCCCCGCAAGACTGCTARCCGAGTACGCTTGGGTGGCAAGGCTTG 180
121
Db GATTTGGGCGTGGCCCCCGCAAGACTGCTARCCGAGTACGCTTGGGTGGCAAGGCTTG 284
225
QY TGGTACGCTGATAGGGGTGCTTGCAGTGTGCGGGAGGTCTGTGACCGGTGATCAT 240
181
Db TGGTACGCTGATAGGGGTGCTTGCAGTGTGCGGGAGGTCTGTGACCGGTGATCAT 344
285
QY GAGCACAATCTTAACTCTCAAGAAAAAACCAGAAACCTAACCGCGCCACAGAGA 300
241
Db GAGCACAATCTTAACTCTCAAGAAAAAACCAGAAACCTAACCGCGCCACAGAGA 404
345
QY CGTTAAGTTCGCGGCGGTGCGCAGATGCTTGGCGAGTATCTTGTTCCTTCAGGGG 360
301
Db TATTAAATTCGCGGCGGTGCGCAGATGCTTGGCGAGTATCTTGTTCCTTCAGGGG 464
405
QY NCCAGGTMNGTMTATGCGCAAGAGAACTNCCGAACAGTCCAGACCGTGGAG 420
361
Db NCCAGGTMNGTMTATGCGCAAGAGAACTNCCGAACAGTCCAGACCGTGGAG 524
465
QY CGCGCAGCCCATCCCGAAGATCGAGNCAACCTAGCAAGTCTGGGGACGCTCAGAGATA 480
421
Db CGCGCAGCCCATCCCGAAGATCGAGNCAACCTAGCAAGTCTGGGGACGCTCAGAGATA 584
525
QY TCCCTGCGCTGTATGGAACGAGGGCTTGGGTGGCGAGGGTGGCTCTGTCCCGCG 540
481
Db CCTTGGCGCTGTATGGAACGAGGGCTTGGGTGGCGAGGGTGGCTCTGTCAACCCG 644
585
QY GGGGTCGCGCGCTGATGAGGGGCGCAAGGACCCCGGATAGTGGCGCACTTGGGTTA 600
541
Db GGGGTCGCGCGCTGATGAGGGGCGCAAGGACCCCGGATAGTGGCGCACTTGGGTTA 704
645
QY GGTATGATACACCTTCATGAGGCTTCCGACCTTACGAGGTTATCCGCTGTGG 660
601
Db GGTATGATACACCTTCATGAGGCTTCCGACCTTACGAGGTTATCCGCTGTGG 764
705
QY CGCCCACTAGAGGCGTGGCAAGACTTGGCGATGGCGTGAAGTCTTGAAGAGCGG 720
661

Db 765 GCGCCCTTAGGGGCGTTGCCAGAGGCCCTGACATGCTGTCGCGGTCTGAGAGACG 824
 Qy 721 GATAAATATGAAACAGGGAACCTCCCGGTGCTCTTTCTATCTCCCTCTGCT 780
 Db 825 CGTGAACATGTAACAGGGAATCTCCCGGTGCTCTTTCTATCTCCCTCTGCT 884
 Qy 781 TCTGTCTGAATTAACCGGCGCATTTCTGTGTGAAATCAAAAACACAGMAACATA 840
 Db 885 GCTGTCTGTGTTGACCAACCCAGTTTCCGCTTATGAAAGTGCTAAAGGTCGGATGTA 944
 Qy 841 CATGTGACTAACGACTGTTCAACAGTACCTGCGAGCTTNNNNCGCGTCT 900
 Db 945 CCATGTCAAGAACGACTGCTCCACTCAAGTGTGATGAGGACGCGACATATCAT 1004
 Qy 901 TCACGTTCTGATGATGCTCCCTGTGAACGAGAGGGAACAAGTCCCGGTGCTGATTC 960
 Db 1005 GCACATCCCGGTGCTGCTCCGCTTGGAGAGACATCTCCCGGTGCTGAGTGC 1064
 Qy 961 AGTCAAGCCCTACATGATGAGGCGGAGCTGTGCTCCCTAACGAGGTTTGCATGCA 1020
 Db 1065 ACTTACTCCACGCTCGGGGCGAGGAATGCGAGCTCCCACTAGACATTCGACGCA 1124
 Qy 1021 CATGCAACCATGCTAGCGTCCGCAACATTTGTTCTGCTTACATAGGAGATGATG 1080
 Db 1125 TGTCACTGTGCTGTGGGGTAGCTGTCTTCTGTTCCGCTATGATGCTGGGGAACCTCG 1184
 Qy 1081 TGGGCGGATTAATGATGCTGCCAAGTGTGATGCTGCTGCGGAGCATCATCTTGT 1140
 Db 1185 CGATCTGTTTCTTGTTCCTGTTCCAGCTGTCACTTTTGTGCTCGCGCATAGACGAT 1244
 Qy 1141 CCAGAGCTGTAATGTTCCATCTAACCCGGGCGACATAACGGGGCTCGATG 1192
 Db 1245 ACAGAGCTGCAACTGCTCAATCTATCCGGCGCGATATGAGTCAACCGCATG 1296

RESULT 7

US-09-014-416-4
 ; Sequence 4, Application US/09014416
 ; Patent No. 6153421
 ; GENERAL INFORMATION:
 ; APPLICANT: Yanagi, Masayuki
 ; APPLICANT: Bukh, Jens
 ; APPLICANT: Emerson, Susanne U.
 ; APPLICANT: Purcell, Robert H.
 ; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
 ; FILE REFERENCE: 20264276
 ; CURRENT APPLICATION NUMBER: US/09/014,416
 ; CURRENT FILING DATE: 1998-01-27
 ; EARLIER APPLICATION NUMBER: US 60/053,062
 ; EARLIER FILING DATE: 1997-07-18
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: Patent Ver. 2.1
 ; SEQ ID NO 4
 ; LENGTH: 9595
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C virus
 US-09-014-416-4

Query Match 62.5%; Score 747.4; DB 3; Length 9595;
 Best Local Similarity 75.8%; Pred. No. 7,4e-224;
 Matches 904; Conservative 4; Mismatches 284; Indels 0; Gapd 0;

Qy 1 CGNACACCTCCAGGCCCCCTCCCGGAGAGCCATAGTGTGCGAAACCGGTAG 60
 Db 104 CGTGAAGCTTCAGAGCCCTCCCGGAGAGCCATAGTGTGCGAAACCGGTAG 163
 Qy 61 TACACCGGAATTCGCGGGAAGCTGGGTCTTTCTGATTAACCCACCTATGCGGCG 120
 Db 164 TACACCGGAATTCGCGGGAAGCTGGGTCTTTCTGATTAACCCACCTATGCGGCG 223
 Qy 121 CATTTGGGCGTCCCGCGAAGACTGCTATCCGATAGCGTTGGGTGCGAAGGCTTG 180

Db 224 GATTTGGGCGTCCCGCGAAGACTGCTATCCGATGATGTTGGGTGCGAAGGCTTG 283
 Qy 181 TGTACTGCTGATAGGAGTGTGCGAGTGCCTCCGGAGGCTGTGATGACCGTGATCAT 240
 Db 284 TGTACTGCTGATAGGAGTGTGCGAGTGCCTCCGGAGGCTGTGATGACCGTGATCAT 343
 Qy 241 GAGCAAAATCTTAAACCTCAAGAAAAAACAAGAAACCTAAACCGCGCCACAGAGA 300
 Db 344 GAGCAAAATCTTAAACCTCAAGAAAAAACAAGAAACCTAAACCGCGCCACAGAGA 403
 Qy 301 GCTTAAGTTCCTGGGCGGTGCGCAATGCTGTGGAGATATCTTTGCTCCNTGCAAGGG 360
 Db 404 CGTCAAGTTCCTGGGCGGTGCGCAATGCTGTGGAGATATCTTTGCTCCNTGCAAGGG 463
 Qy 361 NCCAGGTTGATGATGCGCAAGAGAAAGATCCGAAACAGTCCAGACGATGGAG 420
 Db 464 CCCAGGTTGATGATGCGCAAGAGAAAGATCCGAAACAGTCCAGACGATGGAG 523
 Qy 421 GCGCAGCCCATCCCGAAAGATCGAGACCACTGGAAGTCTGAGGAGCTGCCAGATA 480
 Db 524 GCGAACAATATCCCAAAAGCTCCCGCAACCGAGGCGAGGCTGAGCTCAGCCGGTA 583
 Qy 481 TCCCTGCTGATATGAGGAAAGAGGCTCTGGGTGAGGAGGCTCTCTGCTCCCGCG 540
 Db 584 CCTTGGGCTCTATGAGCAATGAGGCTGTGGGTGAGGAGATGCTCTGTCACCCCG 643
 Qy 541 GGGTCCCGCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
 Db 644 GGGTCCCGCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 703
 Qy 601 GGTATGATATCTCTCAAGTTCGCTTTCGCACTGATGAGGAGTATTCCTGCTGTGG 660
 Db 704 GGTATGATATCTCTCAAGTTCGCTTTCGCACTGATGAGGAGTATTCCTGCTGTGG 763
 Qy 661 GCGCCAGTAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720
 Db 764 GCGCCCTAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 823
 Qy 721 GATAAATATGAAACAGGGAACCTCCCGGTGCTCTTTCTATCTCCCTCTGCTGCT 780
 Db 824 CGTGAACATGTAACAGGGAACCTCCCGGTGCTCTTTCTATCTCCCTCTGCTGCT 883
 Qy 781 TCTGTCTGAATTAACCGGCGCATTTCTGTGTGAAATCAAAAACACAGMAACATA 840
 Db 884 GCTGTCTGTGTTGACCACTCCAGCTTCGCTTATGAAAGTGGCAACGCTGCCGATATA 943
 Qy 841 CATGTGACTAACGACTGTTCAACAGTACCTGCGAGCTTNNNNCGCGTCT 900
 Db 944 CCATGTCAAGAACGACTGCTCAACTCAAGATGTGATGAGGACGAGCGATCAT 1003
 Qy 901 TCACGTTCTGATGATGCTCCCTGTGAAACGAGGGAACAAGTTCCTGGGTGCTGATTC 960
 Db 1004 GCATACCTCCCGGTGCTGCTGTGTGCAAGAGGATTAACGCTCCGTTGCTGAGTGC 1063
 Qy 961 AGTCAAGCCCTACATGATGAGGCGGAGCTGTGCTCCCTAACGAGGTTTGCATGCA 1020
 Db 1064 GCTACTCCACGCTCGCGGCGAGGAATGCGAGCTCCCACTAGCAATAGCACGCCA 1123
 Qy 1021 CATGCAACCATGCTAGCGTCCGCAACATTTGTTCTGCTTACATAGGAGATGATG 1080
 Db 1124 CGTGAACCTGCTGTGGAGAGGCTGCTTCTGCTCGCTATGATGCTGGGGGATCTCTG 1183
 Qy 1081 TGGGCGGATTAATGATGCTGCCCAAGTGTGATGCTTCCCGGAGATCATCTTGT 1140
 Db 1184 CGATCTAATTTTCTGTGCTCCAGCTGTTCACTTCTGCTGCGCGGATGAGACAT 1243
 Qy 1141 CCAGAGCTGTAATGTTCCATCTAACCCGGGCGACATAACGGGGCTCGATG 1192
 Db 1244 GCGAGACTGCAACTGCTCAATCTATCCGGCGCGATATGAGTCAACCGCATG 1295

RESULT 8

US-09-014-416-6

```

; Sequence 6, Application US/09014416
; Patent No. 6153421
; GENERAL INFORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Bukh, Jens
; APPLICANT: Emerson, Susanne U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; FILE OF INVENTION: US95 THEROP
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; CURRENT FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 9599
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-014-416-6

```

```

Query Match      62.5%; Score 747.4; DB 3; Length 9599;
Best Local Similarity 75.8%; Pred. No. 7.4e-224;
Matches 304; Conservative 4; Mismatches 284; Indels 0; Gaps 0;

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QY      1 CGMACANCTCCAGGCCCCCTCCCGGAGAGCATAGTGTCTGGGGAACCGGTAG 60
DB      104 CGTGACGCTTCAGAGACCCCTCCCGGAGAGCATAGTGTCTGGGGAACCGGTAG 163
QY      61 TACACCGGAATTCGCGGGAAGACTGGTCTTTCTTGATTAACCACTCTATGCCCCG 120
DB      164 TACACCGGAATTCGCGGGAAGACTGGTCTTTCTTGATTAACCACTCTATGCCCCG 223
QY      121 CATTTGGGCTGCCCCCGCAAGACTGCTARCCGAGTAGCGGTGGTGGGAAGGCTTG 180
DB      224 GATTTGGGCTGCCCCCGCAAGACTGCTARCCGAGTAGCGGTGGTGGGAAGGCTTG 283
QY      181 TGGTCTGCTGATAGGGGTCTTGAGAGTCCCGGAGAGTCTCGTAGCCGTGATCAT 240
DB      284 TGGTCTGCTGATAGGGGTCTTGAGAGTCCCGGAGAGTCTCGTAGCCGTGATCAT 343
QY      241 GAGCAAAATCTTAACTCAAGAAAAACAAGAAAAACAATAACCGCCGCCACAGGA 300
DB      344 GAGCAAAATCTTAACTCAAGAAAAACAAGAAAAACAATAACCGCCGCCACAGGA 403
QY      301 CGTTAAGTTCCCGGGGCTGGCCAGACTGTTGGCCGAGTAATCTTGTTCCTTGCAGGG 360
DB      404 CGTTAAGTTCCCGGGGCTGGCCAGACTGTTGGCCGAGTAATCTTGTTCCTTGCAGGG 463
QY      361 NCCCGATNGTNTATGGCAACGANGAAGACTNCCGAACGTCCACGCCAGTGGAG 420
DB      464 CCCGAGTGGGTGGCGCGCACTAGGAAGGCTTCGAGCGGTCCAACTCTGTGGAAG 523
QY      421 GCGCCAGCCCATCCCGAAAGATCGGNGACAACCTGGCAAGTCTTGGGAGCGTCCAGATA 480
DB      524 GCGCAACCTATCTCCAAAGGCTTCGCGACCCGAGGCAAGGCGTGGGCTCAACCCGGGATA 583
QY      481 TCCCTGGCCCTGTATGGAACGAGGGCTTGGGTGGGCAAGGCTGCTCTTCCCTCCG 540
DB      584 CCTTGGCCCTGTATGGAACGAGGGCTTGGGTGGGCAAGGCTGCTCTTCCCTCCG 643
QY      541 GGGCTCCGCGCGCTCATAGGGGCCCCAGACCCCGGCGATAGGTGGCGCACTTGGGATA 600
DB      644 CGGCTCCGCGCGCTCATAGGGGCCCCAGACCCCGGCGATAGGTGGCGCACTTGGGATA 703
QY      601 GGTTCATCATACCTTCACGCTTNGCGCTTTTCCGACCTCATGGGGTACATTCCTCGGTGG 660
DB      704 GGTTCATCATACCTTCATACATGGCGCTTCCCGCATCTCATGGGGTACATTCCTCGGTGG 763
QY      661 CGCCCCAGTAGAGGCGTGGCCAGAGACTCTCGCGCATGGCGTGAAGTCTTGAAGACGG 720
DB      764 CGCCCCAGTAGAGGCGTGGCCAGAGACTCTCGCGCATGGCGTGAAGTCTTGAAGACGG 823

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QY      721 GATAAATATGAACAGGAACCTCCCGGTGCTTTCTATCTCCCTCTTGCTCT 780
DB      824 CGTGAATATGCAACAGGAACCTGCGGTGCTCTTTCTATCTCCCTCTTGCTCT 883
QY      781 TCTGTCTGAATTAACGNGCCAGTTTCTGCTGTGGAATCAAAAACACAGAACATA 840
DB      884 GCTGTCTGTTGACCATCCAGCTCCGCTTATGAAGTGGCAACGTGTCCGGATATA 943
QY      841 CATGTGACTAGCACTGTTCAACAGTAGCATCACTGGAGCTTNNNGNCGGGTCT 900
DB      944 CATGTGACTAGCACTGTTCAACAGTAGCATCACTGGAGCTTNNNGNCGGGTCT 1003
QY      901 TCAGTTCCTGATAGCGTCCCTGTGAACGAGAGGCAACAGTTCGCGTGTGATTC 960
DB      1004 GCATATCTCCGGGTGCGTCCCTGTGTTCAGAGAGGATACAGCTCCGTTGCTGGTAGC 1063
QY      961 AGTACGCCCRAAGTANNGTAGCCGACCTGTGTCCCTTAACGAGGTTTGCATGCA 1020
DB      1064 GCTCATCTCCAGCTCGCGGCGCAAGAAATGCCAGCTCCCACTACGAACATACGACCCA 1123
QY      1021 CATGACACCATCTGATGCTCCGCAACATTTGTTGCTGCTCCCTCTACATAGGGATGATG 1080
DB      1124 GGTGACTGCTGCTGGGAGCGCTGCTTCTGCTCGCTATGATGCGGGGATCTCTG 1183
QY      1081 TGGCGCGATATGATAGCTGCGCAAGTGTATGCTGCTGCGCGAGATCATCTTGT 1140
DB      1184 CGGATCTATTTTCTGCTGCTCCAGCTGTTCACCTTCTGCGCTGCGCGGATGAGACGT 1243
QY      1141 CCAGACTGTAACTGTTTCATCTACCGCGGCCACATTAACGGGCGCTGTATG 1192
DB      1244 GCAGGACTGCAACTGCTCAATCTATCCGCGGCATGATCAGGTACCGCATG 1295

RESULT 9
US-08-470-426B-14
; Sequence 14, Application US/08470426B
; Patent No. 5856458
; GENERAL INFORMATION:
; APPLICANT: Okamoto, Hiroaki
; APPLICANT: Nakamura, Tetsuo
; TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
; TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bayeridge, Degrandi, Weillacher & Young,
; ADDRESSEE: L.U.P.
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,426B
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-153402
; FILING DATE: 12-JUN-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/59-47083.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; INFORMATION FOR SEQ ID NO: 14:

```


SEQUENCE CHARACTERISTICS:
 LENGTH: 1863 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: unknown
 MOLECULE TYPE: DNA (genomic)
 US-08-470-426B-14

Query Match 62.0%; Score 741; DB 2; Length 1863;
 Best Local Similarity 75.5%; Pred. No. 2,8e-222;
 Matches 900; Conservative 4; Mismatches 288; Indels 0; Gaps 0;

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QY 1 CGNACACCTCCAGAGCCCTCCCGGAGAGCCATAGTGTCTGCGGAACCGGTAG 60
DB CGTGACAGCTCCAGAGCCCTCCCGGAGAGCCATAGTGTCTGCGGAACCGGTAG 146
QY 61 TACACCGGAATGCGGGAAGACTGGTCTTTTGGATAAACCACTCTATGCGCGG 120
DB 147 TACACCGGAATGCGGGAAGACTGGTCTTTTGGATAAACCACTCTATGCGCGG 206
QY 121 CATTTGGGCGTCCCGGCAAGAGCTCTARCCGAGTAGGCTGGGTTGGAAAGGCTTG 180
DB 207 GATTTGGGCGTCCCGGCAAGAGCTCTARCCGAGTAGGCTGGGTTGGAAAGGCTTG 266
QY 181 TGGTACTGCTGATAGGCTGCTTGGCAGAGTCCCGGAGGTCTGTAGACCGTGCATAT 240
DB 267 TGGTACTGCTGATAGGCTGCTTGGCAGAGTCCCGGAGGTCTGTAGACCGTGCATAT 326
QY 241 GAGCACAATCTCTAAACCTCAAGAAAGAAACCAAAAGAAACCTAAACCGCGCCACAGGA 300
DB 327 GAGCACAATCTCTAAACCTCAAGAAAGAAACCAAAAGAAACCTAAACCGCGCCACAGGA 386
QY 301 CGTTAAGTTCCCGGCGGCTGCGCAGATCGTTGGCGGAGATATCTTTGCCNTGAGGGG 360
DB 387 CGTCAAGTTCCCGGCGGCTGCGCAGATCGTTGGCGGAGATATCTTTGCCNTGAGGGG 446
QY 361 NCCGAGTNGTNTATGCGCAACGANGAAGACTNCCGAACGTCCAGCCACGTGGAG 420
DB 447 CCCCAGTGGGTGGTGGCGGCACTAGGAAGACTTCCGAGCGGTGCGAACCTCGTGGATG 506
QY 421 GCGCCAGCCCATCCGGAAGATCGGACCACTGGCAATCTCTGGGAGCGTCCAGATTA 480
DB 507 GCGAACACTATCCCAAGGCTCGCCGACCCGAGGCGAGGGCTGCGCTCAGACCCGCGGTA 566
QY 481 TCCCTGCGCCCTGTATGGAAGAGAGGGCTGGGGTGGCGAGGGGCTCCGTCCTCCCGG 540
DB 567 CCTTGGCCCTCTATAGCAATGAGAGGCTTGGGGTGGGAGAGATGCTCTGTACCCCG 626
QY 541 GGGCTCCCGCCGCTATGAGGGGCCCAACGAGACCCCGGATAGTGGCCCACTTGGGTAA 600
DB 627 CCGCTCCCGGCTATGAGGGGCCCAACGAGACCCCGGATAGTGGCCCACTTGGGTAA 686
QY 601 GGTATGATACCTCTACAGTNGGCTTNNCCGACTCATGGGGTATCATTTCCGTCGTG 660
DB 687 GGTATGATACCTCTACAGTNGGCTTNNCCGACTCATGGGGTATCATTTCCGTCGTG 746
QY 661 CGCCCCAGTAGGAGGCTGCGCAGAGCTCTGCGGATGGCGTAGAGGCTCTGGAGGAG 720
DB 747 CGCCCCAGTAGGAGGCTGCGCAGAGCTCTGCGGATGGCGTAGAGGCTCTGGAGGAG 806
QY 721 GATAAATAATGAAACAGGAAACCTCCCGGTTGCTCTTCTCTATCTCCCTCTGCTCT 780
DB 807 CGTGAATATGCAACAGGAAACCTTCCCGGTTGCTCTTCTCTATCTCCCTCTGCTCT 866
QY 781 TCTGCTCTGATTAACCGAGCCAGTTTCTGCTGTGGAATCAAAAACACCAAGAACATA 840
DB 867 GCTGCTCTGATTAACCGAGCCAGTTTCTGCTGTGGAATCAAAAACACCAAGAACATA 926
QY 841 CATGTGACTAAGCACTGTTCAACAGATGATCACTGGCAGCTTNNANNCGGGTCT 900
DB 927 CCATGTGACGAAGCACTGCTCCAACTCAAGATTTGTATAGGAGGAGCAATGATAT 986
QY 901 TCACGTTCTGATGCGTCCCTGTGAAAGAGAGGCAACAGTTCCCGGTCTGGATTCC 960

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DB 987 GCATATCCCGGAGGCGGCTCGCTTCCGAGAGAAAGAGCTCCCGTCTGCGGTAGC 1046
QY 961 AGTACAGCCGCAAGTANCGTGAAGCCAGCTGAGTCCCTTAACGAGGTTTGCATGCCA 1020
DB 1047 GCTCACTCCAGCGCTCGGCGAGAAATGCCAGGGTCCCACTACGACAAATACACGCCA 1106
QY 1021 CATGACACCATGCTAGGAGTCCGCAACATTTGTTGACCTCCCTCAATAGGGAGTAGTATG 1080
DB 1107 GCTGACTGCTGCTGTTGGAGCGCTGCTTCTGCTCCGCTATGATGCGGGAGATCTTG 1166
QY 1081 TGGCGCGATTAATGATAGCTGCGCAAGTGTATCATGCTTCGCGGAGATCATCTTTGT 1140
DB 1167 CGGATCTGTTTCTCGCTCCGCTCCAGCTGTTTCACTTCTGCTGCGCGGAGTAGAGAGT 1226
QY 1141 CCAGACTGTAATCTTTCATCTACCCGGGCAATACGAGGCTGTATG 1192
DB 1227 GCAGGACTGCAACTGCTCAATCTATCCCGCATTTATCAGGTACCGCATG 1278

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RESULT 10

US-08-191-160-21
 ; Sequence 21, Application US/08191160

Patent No. 6210675

GENERAL INFORMATION:

APPLICANT: Highfield, Peter Edmund

APPLICANT: Rodgers, Brian Colin

APPLICANT: Tedder, Richard Seton

APPLICANT: Bardara, John Anthony James

TITLE OF INVENTION: Viral Agent

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:

ADDRESSEE: Rothwell, Flgy, Ernst & Kurz

STREET: 1700 K Street

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20006

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage

COMPUTER: IBM AT compatible

OPERATING SYSTEM: MS-DOS V3.2

SOFTWARE: Wordperfect 5.0 (DOS text)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/191,160

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/628,516

FILING DATE: 17 DEC 1990

APPLICATION NUMBER: UK 89 28 562.1

FILING DATE: 18 DEC 1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: UK 90 04 414.0

FILING DATE: 27 FEB 1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: UK 90 04 814.1

FILING DATE: 03 MAR 1990

ATTORNEY/AGENT INFORMATION:

NAME: E. Anthony Flgy

REGISTRATION NUMBER: 27,195

REFERENCE/DOCKET NUMBER: 1645-103A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 833-5740

TELEFAX: (202) 833-5744

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 216 base pairs

TYPE: nucleotide with corresponding protein

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cdna to genomic RNA

ORIGINAL SOURCE:

ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: cDNA clones from 5' end of the genome
FEATURE:
LOCATION: from 308 to 2116 bp start of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: viral structural and non-structural
OTHER INFORMATION: proteins
US-08-191-160-21

Query Match 61.7%; Score 737.8; DB 3; Length 2116;
Best Local Similarity 75.3%; Pred. No. 3,1e-221;
Matches 898; Conservative 4; Mismatches 290; Indels 0; Gaps 0;

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QY 1 CGNANCTCCAGAGCCCCCCCCCGGAGAGGCGATAGTGTGTGGGAAACGGGTAG 60
DB 70 CGTGAGGCTCCAGAGCCCCCCCCCGGAGAGGCGATAGTGTGTGGGAAACGGGTAG 129
QY 61 TACACCGGAAATTCGCGGAGAGAGTGGGTCCTTCTTGATTAACCACTCTATGCCCCG 120
DB 130 TACACCGGAAATTCGCGGAGAGAGTGGGTCCTTCTTGATTAACCACTCTATGCCCCG 189
QY 121 CATTTGGGCGTGGCCCCCGGAGAGTGTARCCGAGTACGCTTGGTTGCAAAAGCCTTG 180
DB 190 GATTTGGGCGTGGCCCCCGGAGAGTGTARCCGAGTACGCTTGGTTGCAAAAGCCTTG 249
QY 181 TGGTACTGCTGATAGGCTGTGGAGTGGCCCCCGGAGGTCCTGTAGACCGGTGATAT 240
DB 250 TGGTACTGCTGATAGGCTGTGGAGTGGCCCCCGGAGGTCCTGTAGACCGGTGATAT 309
QY 241 GAGCACAATCTCTAAACCTCAAGAAACCAAAAGAAACACTTAACCGCGCCACAGGA 300
DB 310 GAGCACAATCTCTAAACCTCAAGAAACCAAAAGAAACACTTAACCGCGCCACAGGA 369
QY 301 CGTTAAGTTCCCGGCGGTGGCCAGATGCTGGCGAGTATCTTGTTCCTTCAGAGGG 360
DB 370 CGTTAAGTTCCCGGCGGTGGCTCAGATGCTGGCGAGTATCTTGTTCCTTCAGAGGG 429
QY 361 NCCGAGTNGTNTATGGCAACGAGAAAGCTNCCGAAAGTCCGAGCGAGTGGGAG 420
DB 430 CCCCAGTGGGTGGCGGCGCACTAGAGAAAGCTTCCGAGCGAGTGGCAACCTGGGAG 489
QY 421 GCGCAGCCCATCCGGAAGATCGGNGACAACCTGCGCAATCTGGGAGCTGCAGATA 480
DB 490 GCGCAGCACTATCCCAAGGCTCGCAGCCGAGGCAAGGCGCTCAACCCGGGATA 549
QY 481 TCCCTGGCCCTGTATGGAGAGAGGCTCGGGTGGGCAAGGCTCTCTCCCTCCG 540
DB 550 CCGTTGGCCCTGTATGGAGAGAGGCTCGGGTGGGCAAGGATGGCTCTCTCAACCCG 609
QY 541 GGGGCTCCGCGCGGTGATGGGGGCCCAAGGAGCCCGCGCATAGGTGGCGCAACTTGGGATA 600
DB 610 TGGGCTCCGCGCGGTGATGGGGGCCCAAGGAGCCCGCGCATAGGTGGCGCAACTTGGGATA 669
QY 601 GGTGATGATACCTTCACGTCGCTTTCGACCTCATGGGATACTTCCGCTGGTGG 660
DB 670 AGTCATGATACCTTCACATGGGCTTGGCCGACCTCATGGGATACTTCCGCTGGTGG 729
QY 661 CGCCCCAGTAGGCGGTGGCCAGAGCTTCGGCGCATGGCGTGAAGTCTTGGAGAGCG 720
DB 730 CGCTCCCTTATGGGGGCGTGCAGAGGCTTGGGCGCATGGCGTTCGGAGAGCG 789
QY 721 GATTAACCTTGAACAGGGAACCTCCCGGTTGCTCTTCTATCTCCCTGGCTCT 780
DB 790 CGTGAACCTTGAACAGGGAATTTACCGGTTGCTCTTCTATCTCCCTGGCTCT 849
QY 781 TCTGTCCTGAATTAACCGGCACTTCTCTGTGGAATCAAAACACCAAGAAACATA 840
DB 850 GCTGTCCTTGAACCACTTCAGCTTCCGCTTATGAAGTCGAAGTGTCCGGAGTCTA 909
QY 841 CATGTGACTAAGACTGTTCAACAGVAGCATCACTGGCAGACTTNNNNCGCGGTCT 900
DB 910 CATGTGACGAAGACTGTTCCAACTCAAGCATCGTGTACGAGACAGCGGACATGATCAT 969
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QY 901 TCAGTTCCTGATGCGTCCCTGTGAACGAGAGGCAAGTTCGCGGTGATTC 960
DB 970 GCACACCCCGGAGTGTGTGCTGTGTCCGAGAGGATATTCCTCCGCTGTGGTAGC 1029
QY 961 AGTCAGCCCGACGTAAACGTGAGCCGACCTGTGCTTACCGAGGTTTGGATGCA 1020
DB 1030 GCTCACTCCACGCTCCGCGCAAGAGCGCAGCATCCCACTGCGCAATATAGACCCA 1089
QY 1021 CATGACACCATCTTACGTCGCGCAATTTTGTTCGCCCTCACTATAGGAGATGAT 1080
DB 1090 CGTGATTTGCTGTGGGCGGCTGCTTCTGCTGCTATGATGATGGAGATCTTG 1149
QY 1081 TGGCGGATATGATGATGCTGCCCAAGTGTATGCTTCGCGGAGCATCATCTTGT 1140
DB 1150 CGGATGCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1209
QY 1141 CGAGGACTGATCTGTTTCATCTACCGGCGCACATACGAGGCTTGATG 1192
DB 1210 ACAGGACTGCAATGTTCAATCTATCCCGGCAAGTATCAGTACCGCATG 1261
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RESULT 11

US-08-324-977-3
Sequence 3, Application US/08324977

Patent No. 5747339

GENERAL INFORMATION:

APPLICANT: OKAYAMA, Hiroto

APPLICANT: FUKU, Iba

APPLICANT: MORI, Chisato

APPLICANT: TAKAMIZAWA, Akahisa

APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:

ADDRESS: Armstrong, Westerman, Hattori, Mclelland &

ADDRESS: Naughton

STREET: 1725 K St. N.W. Suite 1000

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20006

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 in, 1.44MB

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/324,977

FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-167466

FILING DATE: 25-JUN-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-230921

FILING DATE: 31-AUG-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-305605

FILING DATE: 09-NOV-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/099,706

FILING DATE: 30-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/769,996

FILING DATE: 02-OCT-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/635,451

FILING DATE: 28-DEC-1990

ATTORNEY/AGENT INFORMATION:

NAME: Stevens-Smith, Theresa M.

REGISTRATION NUMBER: 36,281

REFERENCE/DOCKET NUMBER: 900703D

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..1499
 OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
 OTHER INFORMATION: ID NO: 1"
 US-08-324-977-3

Query Match 61.2%; Score 731.4; DB 2; Length 1499;
 Best Local Similarity 75.0%; Pred. No. 2,6e-219;

Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

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QY 421 GCGCAGCCCATCCGAAAGATCGAGNAGCACTGAGCAAGTCTTGAGGAGCTTCAGAGTA 480
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DB 695 GGTCAATGATACCTTCACGCTTNGGCTTTNCCGACTCATGAGGAGTATCTCCGCTGTGG 754
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DB 995 GCATATCTCTGAGATGCTCCCTGTGAGACGAGAGGCAACAGTTCCCGGTCTGATTC 1054
QY 961 AGTACGCGCRAAGTANNGTGAAGCCAGCTGTGCTTAAACGAGAGTGTGCGATCGCA 1020
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DB 1175 CGATCTGTTTCTCGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1234
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RESULT 12

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US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Iseo
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iseo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hatlori, Mclelland &
; ADDRESS: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605

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FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Stevens-Smith, Theresa M.
 REGISTRATION NUMBER: 36,281
 REFERENCE/DOCKET NUMBER: 900703B
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..1499
 OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
 OTHER INFORMATION: ID NO: 1"
 US-08-384-616-3

Query Match 61.2%; Score 731.4; DB 2; Length 1499;
 Best Local Similarity 75.0%; Pred. No. 2.6e-219;
 Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

QY 1 CGNACANCTCCAGGCCCCCCCCCGGAGAGCCATGATGCTGCGGAAACCGGTAG 60
 DB 95 CGTGAGCCTCCAGAGCCCCCTCCGGAGAGCCATGATGCTGCGGAAACCGGTAG 154
 QY 61 TACACCGGAATGCGGGAGAGCTGGTCTTTCTTGATAAACCACTCTATGCCGAGC 120
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QY 601 GGTATGATATACCTCTCAAGTNGCGCTTTNCCGACCTCATGGGGATATCCCGTGTGG 660
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 DB 935 TCATGTACGAACGACTGCTCAACGCAAGCATTTGTATGAGGACGCGACTTATCAT 994
 QY 901 TCAGGTCCTGGAGCGCTCCCTGTGAAACGAGAGGGCAACAGTCCCGGTGCTGATTC 960
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 QY 1141 CCAGACTGTAACGTTCATCTAACCGGGCCACATACCGGGGCGCTGTATG 1192
 DB 1235 ACAGACTGTAACGTTCATCTAACCGGGCCACATACCGGGGCGCTGTATG 1286

RESULT 13
 US-08-904-686A-3
 Sequence 3, Application US/08904686A
 Patent No. 5998130
 GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 TITLE OF SEQUENCES: 50
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McIeland &
 ADDRESS: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/904,686A
 FILING DATE: 01-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/324,977
 FILING DATE: 18-OCT-1994

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: McIeland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
NAME/KEY: misc feature
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US-08-904-686A-3

Query Match      61.2% Score 731.4; DB 2; Length 1499;
Best Local Similarity 75.0%; Pred. No. 2,6e-219;
Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

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RESULT 14
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; Sequence 3, Application US/09115850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Ieao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Ieao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Armstrong, Westerman, Hattori, McIeland &
; ADDRESSER: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.

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COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/315,850
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/904,686
 FILING DATE: 01-AUG-1997
 APPLICATION NUMBER: US 08/324,977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
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 FILING DATE: 31-AUG-1990
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 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
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 FILING DATE: 02-OCT-1991
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 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: McLeiland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 9007036
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..1499
 OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
 OTHER INFORMATION: ID NO: 1"
 US-09-315-850-3

Query Match 61.2%; Score 731.4; DB 3; Length 1499;
 Best Local Similarity 75.0%; Pred. No. 2,6e-219;
 Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

QY 1 CGNACGCTCCAGAGCCCCCTCCGGAGAGCATGTGGTGGCGAACCAGGTAG 60
 DB 95 CGTGACGCTCCAGAGCCCCCTCCGGAGAGCATGTGGTGGCGAACCAGGTAG 154
 QY 61 TACACCGAATTCGCGGAGAGCTGGTCTTCTTGGATTAACCCACTCTATGCCGCG 120
 DB 155 TACACCGAATTCGCGGAGAGCTGGTCTTCTTGGATTAACCCACTCTATGCCGCG 214
 QY 121 CATTTGGGCTGCCCCCGCAAGACTGTACCGAGTAGGCTTGGGTTGGAAAGGCTTG 180
 DB 215 GATTGGGGGTGCCCCCGCAAGACTGTACCGAGTAGGCTTGGGTTGGAAAGGCTTG 274

QY 181 TGGTACTGCTGATAGAGGTGCTTGCAGATGCCCGGAGAGTCTGTAGACCGGTACAT 240
 DB 275 TGGTACTGCTGATAGAGGTGCTTGCAGATGCCCGGAGAGTCTGTAGACCGGTACAT 334
 QY 241 GAGCAAAATCTTAACTTCAAAGAAAACCAAAAGAACTTAACCGCGCCCAACAGGA 300
 DB 335 GAGCAAAATCTTAACTTCAAAGAAAACCAAAAGAACTTAACCGCGCCCAACAGGA 394
 QY 301 CGTTAAGTTCCCGGAGGTGCGAGATCGTTGGGCGAGTAACTTGTTCCTGTCAGGAG 360
 DB 395 GGTCAAGTTCCCGGAGGTGCGAGATCGTTGGGCGAGTAACTTGTTCCTGTCAGGAG 454
 QY 361 NCCAGAGTNGTATATGCGCAAGAGAGACTNCCGAAGTCCAGCCAGCTGGAG 420
 DB 455 CCCAGAGTGGGTGAGCGCGCCAGAGAGACTTCCAGAGGCTCGCAACTCGTGAAG 514
 QY 421 GCGCAGCCCATCCCGAAAGATGGAGCACTGCGCAAGTCTCGGAGAGCTCCAGATA 480
 DB 515 GCGCAACTTATCCCAAGGCTCGCGCCGAGAGGAGCTGGGCTCAGCCCGGATA 574
 QY 481 TCCCTGCGCCCTGATATGAGGAAGAGGCTCGGAGGAGAGGAGTCTGTCGCCCG 540
 DB 575 CCTTGGCTCTCTATAGGCAATGAGGCTTAGAGTGGAGAGATGCTCTGTACACCCG 634
 QY 541 GAGCTCCCGCCGTCATAGGAGGCCCAAGAGACCCCGGATAGTTCGCGCAATTGGATTA 600
 DB 635 GAGCTCCCGCCGTCATAGGAGGCCCAAGAGACCCCGGATAGTTCGCGCAATTGGATTA 694
 QY 601 GGTATGATACCTCCTACAGTTCGCTTTCGAGCTCTATGGGGTATCATTCCTGCTTGG 660
 DB 695 GGTATGATACCTCCTACAGTTCGCTTTCGAGCTCTATGGGGTATCATTCCTGCTTGG 754
 QY 661 CGCCCACTAGAGAGGCGTCCGAGAGCTCTGCGAGTCCGAGAGTCTGAGAGAGCG 720
 DB 755 CGCCCACTAGAGAGGCGTCCGAGAGCTCTGCGAGTCCGAGAGTCTGAGAGAGCG 814
 QY 721 GATTAACATATGAAACAGGAACTTCCCGATGCTCTTCTATCTCTCTCTGCTCT 780
 DB 815 GATTAACATATGAAACAGGAACTTCCCGATGCTCTTCTATCTCTCTCTGCTCT 874
 QY 781 TCTGTCTGAATTAACGAGCCAGTTCGTCTGTGAATCAAAAACACAGMAACACTA 840
 DB 875 GCTGTCTGTCTGAATTAACGAGCCAGTTCGTCTGTGAATCAAAAACACAGMAACACTA 934
 QY 841 CATGTGATCAACAGCTGTGTAACAGAGATCACTGAGAGCTTNNNNCGCGTCT 900
 DB 935 TCATGTCAACAGCTGTGTAACAGAGATCACTGAGAGCTTNNNNCGCGTCT 994
 QY 901 TCACGTTCTGTGATGCGTCCCTGTGAACGAGAGGCAACAGTTCGCGTCTGATTC 960
 DB 995 GCATATCTCTGGGAGCGTCCCTGTGAGTTCGCGGAAAGGCAACTCTCCGCTGCGGTAGC 1054
 QY 961 AGTACGCGCTACATGATGAGAGGAGCGGAGCTGTGAGTCCCAACGAGGTTGGATCGCA 1020
 DB 1055 GCTCATCTCCAGCGCTCGAGGAGAGAGTCAACATCCCAACAGAGATCAACAGCGCA 1114
 QY 1021 CATGACACATCGTAGAGGTCCGCAACATTTTGTCTGCTCCCTTACATAGGAGATGATG 1080
 DB 1115 GCTCATCTCCAGCGCTCGAGGAGAGTCAACATTTTGTCTGCTCCCTTACATAGGAGATGATG 1174
 QY 1081 TGGCGCATTAATGATAGTCCCAAGTGTGATGCTTCGCGAGATCACTCATTTGT 1140
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 QY 1141 CGAGACTGTAACTGTTCAATCTACCGGAGCACTAAGGAGCTCGTATG 1192
 DB 1235 ACAGGACTGTAACTGTTCAATCTACCGGAGCACTAAGGAGCTCGTATG 1286

RESULT 15
 US-08-324-977-1
 ; Sequence 1, Application US/08324977
 ; Patent No. 5747339

GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSER: Armstrong, Westerman, Hattori, McJeland &
ADDRESSER: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9416 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..9362
US-08-324-977-1

Query Match 61.2%; Score 731.4; DB 2; Length 9416;
Best Local Similarity 75.0%; Pred. No. 7,9e-219;
Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

QY 1 CGNACGCTCCAGGCCCCCTCCCGGAGAGCATAGTGTCTGGGGAACGGGTAG 60
DB 95 CGTGAAGCTTCAGAGACCCCTCCCGGAGAGCATAGTGTCTGGGGAACGGGTAG 154
QY 61 TACACGGAATTGCGGGAAGACTGGTCTTTCTTGATTAACCACTTATGCCGCGC 120
|||||

DB 155 TACACGGAATTGCGAGACGACCGGCTCTTTCTTGATTAACCCGCTCAATGCTTGA 214
QY 121 CATTTGGGCGTGGCCCGGCAAGACTGATCCGATGAGTGGTGGAGTGGCAAGGCTTG 180
DB 215 GATTTGGGCGTGGCCCGGCAAGACTGATCCGATGAGTGGTGGAGTGGCAAGGCTTG 274
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DB 935 TCATGTACAGAACGAGCTCTCAACGAGATGATGATGAGGAGCGGACTTGATCAT 994
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DB 995 GCATATCTCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1054
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DB 1055 GCTCACTCCGAGCTCGAGGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1114
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DB 1115 CGTGAATCTCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1174
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DB 1175 CGGATCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1234
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DB 1235 ACAGGACTTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1286

Fri Jan 20 09:52:47 2006

us-08-836-075b-75.rn1

Page 16

Search completed: January 11, 2006, 10:56:47
Job time : 292.369 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075b-77

Perfect score: 340

Sequence: 1 atccacagctcactgaagaag.....acgagacacactgacct 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued Patents NA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	249.4	73.4	340	3	US-08-441-971-17
3	249.4	73.4	340	3	US-08-221-653-16
4	249.4	73.4	340	3	US-08-442-144A-16
5	249.4	73.4	340	3	US-08-441-970-16
6	246.4	72.5	340	3	US-08-441-971-15
7	246.4	72.5	340	3	US-08-221-653-15
8	246.4	72.5	340	3	US-08-442-144A-15
9	246.4	72.5	340	3	US-08-441-970-15
10	242	71.2	340	3	US-09-878-281A-145
11	241.6	71.1	340	3	US-08-441-971-14
12	241.6	71.1	340	3	US-08-221-653-14
13	241.6	71.1	340	3	US-08-442-144A-14
14	241.6	71.1	340	3	US-08-441-970-14
15	240.4	70.7	2693	2	US-07-925-695-4
16	240.4	70.7	9589	2	US-07-925-695-1
17	240.4	70.7	9589	2	US-07-925-695-2
18	239.8	70.5	340	3	US-08-441-971-13
19	239.8	70.5	340	3	US-08-221-653-13
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21	239.8	70.5	340	3	US-08-441-970-13
22	236.8	69.6	340	3	US-08-836-075A-71
23	235.2	69.2	340	3	US-08-836-075A-73
24	228.8	67.3	340	3	US-08-836-075A-79

25	227.4	66.9	340	3	US-08-836-075A-69	Sequence 69, Appl
26	217.4	63.9	340	3	US-08-441-971-17	Sequence 17, Appl
27	217.4	63.9	340	3	US-08-221-653-17	Sequence 17, Appl
28	217.4	63.9	340	3	US-08-442-144A-17	Sequence 17, Appl
29	217.4	63.9	340	3	US-08-441-970-17	Sequence 17, Appl
30	216.6	63.7	9511	2	US-07-925-695-6	Sequence 6, Appl1
31	216.6	63.7	9511	2	US-07-925-695-7	Sequence 7, Appl1
32	215.8	63.5	340	3	US-09-878-281A-215	Sequence 215, App
33	199.2	58.6	335	3	US-08-836-075A-101	Sequence 101, App
34	196.4	57.8	340	3	US-08-836-075A-105	Sequence 105, App
35	187.2	55.1	340	3	US-08-836-075A-99	Sequence 99, Appl
36	164.4	48.4	340	3	US-08-836-075A-57	Sequence 57, Appl
37	163.6	48.1	9365	3	US-09-827-668-7	Sequence 7, Appl1
38	163.2	48.0	340	3	US-08-441-971-11	Sequence 11, Appl
39	163.2	48.0	340	3	US-08-221-653-11	Sequence 11, Appl
40	163.2	48.0	340	3	US-08-442-144A-11	Sequence 11, Appl
41	163.2	48.0	340	3	US-08-441-970-11	Sequence 11, Appl
42	161.6	47.5	340	3	US-08-441-971-12	Sequence 11, Appl
43	161.6	47.5	340	3	US-08-221-653-12	Sequence 12, Appl
44	161.6	47.5	340	3	US-08-442-144A-12	Sequence 12, Appl
45	161.6	47.5	340	3	US-08-441-970-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-77
Sequence 77, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 77:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-77

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 5.3e-87;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATCCACAGTCACGAAAGAGACATCAGATGTAAGAGTCCGTTTATCTGCTCCGTTCACT 60
   |||
QY 61 TCCCGAGAGGCCCGGAGCTGCCATACATCACTAACTGAGAGGCTGTACGTGGAGGTCC 120
   |||
DB 61 TCCCGAGAGGCCCGGAGCTGCCATACATCACTAACTGAGAGGCTGTACGTGGAGGTCC 120
   |||
QY 121 CATGCAGAACAGCAGAGGGGCAATCTCTGGGATACAGGCGCTGCCGCGAGGGGGTCT 180
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DB 121 CATGCAGAACAGCAGAGGGGCAATCTCTGGGATACAGGCGCTGCCGCGAGGGGGTCT 180
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QY 181 CACCACTACATGGGGGAAATCTCTCATGCTACTTGAAGGCCGAGGGCGGCTGCAGGGC 240
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DB 181 CACCACTACATGGGGGAAATCTCTCATGCTACTTGAAGGCCGAGGGCGGCTGCAGGGC 240
   |||
QY 241 CCGGGCATTTGTTGCAACCCACATGCTGGTGTGTGCGAGCACTGTGTCTCATCTCAGA 300
   |||
DB 241 CCGGGCATTTGTTGCAACCCACATGCTGGTGTGTGCGAGCACTGTGTCTCATCTCAGA 300
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QY 301 GAGTCAGGGGACTGAGAGGAGCAGAAACAACCTGAGACCT 340
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DB 301 GAGTCAGGGGACTGAGAGGAGCAGAAACAACCTGAGACCT 340
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RESULT 2

US-08-441-971-16
Sequence 16, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKTEL
INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-971-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.8e-61;
Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

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DB 242 GCGGGCATTTGTTGCAACCCACATGCTGGTGTGTGCGAGCACTGTGTCTCATCTCAGAG 301
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QY 302 AGTCAGGGGACTGAGAGGAGCAGAAACAACCTGAGACCT 340
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DB 302 AGTCAGGGGACTGAGAGGAGCAGAAACAACCTGAGACCT 340
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RESULT 3

US-08-221-653-16
Sequence 16, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5arg6
 US-08-221-653-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
 Best Local Similarity 83.5%; Pred. No. 2.8e-61;
 Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY	2	TCCACAGTCACTGAAAGAGACATCAGAGTTGAAGAGTCGTTATCTGCTGTTCACTT	61
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QY	62	CCCGAGGAGGCCCGAGCTGCGCATCACTCACTAAGAGGCTGTACGTTGAGGTCCT	121
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QY	182	ACCACTAGCATGGGGAATCTCTCATGCTACTTAAAGGCCGAGGCGCTGCAAGGCC	241
DB	182	ACCACTAGCATGGGGAATCTCTCATGCTACTTAAAGGCCGAGGCGCTGCAAGGCC	241
QY	242	GGGGGCAATTTGTGACCCCAATGCTGTGTGTGCGGAGCACTGTGCTCATCTTCAGG	301
DB	242	GGGGGCAATTTGTGACCCCAATGCTGTGTGTGCGGAGCACTGTGCTCATCTTCAGG	301
QY	302	AGTCAGGGGACTGAGAGGAGCAAGAACACTGAGACT	340
DB	302	AGTCAGGGGACTGAGAGGAGCAAGAACACTGAGACT	340

RESULT 4
 US-08-442-144A-16
 Sequence 16, Application US/08442144A
 Patent No. 6214583
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 APPLICANT: Eileen Beall
 APPLICANT: Bruce Irvine
 APPLICANT: Janice Kolberg
 APPLICANT: Michael S. Urdea
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF SEQUENCES: 148
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: California
 COUNTRY: USA
 ZIP: 94608-2916
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 Inch
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows NT
 SOFTWARE: Microsoft Word 97
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/442,144A
 FILING DATE: MAY 16, 1995
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/221,653
 FILING DATE: APRIL 1, 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Doreen Yanko Trujillo
 REGISTRATION NUMBER: 35,719
 REFERENCE/DOCKET NUMBER: CHIR-0121
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 215-568-3100
 TELEFAX: 215-568-3439
 TELEX:
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 Nucleotides
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5arg6
 US-08-442-144A-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
 Best Local Similarity 83.5%; Pred. No. 2.8e-61;
 Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY	2	TCCACAGTCACTGAAAGAGACATCAGAGTTGAAGAGTCGTTATCTGCTGTTCACTT	61
DB	2	TTTACAGTCACTGAAAGAGACATCAGAGTTGAAGAGTCGTTATCTGCTGTTCACTT	61
QY	62	CCCGAGGAGGCCCGAGCTGCGCATCACTCACTAAGAGGCTGTACGTTGAGGTCCT	121
DB	62	CCTGAGGAGGCTCGAATCTGCTCACTCACTAAGAGGCTGTACGTTGAGGTCCT	121
QY	122	ATGCAAGAAAGCAAGGGGCAATCTGCGATACAGGCGCTGCGCCGCGGCTGCTC	181
DB	122	ATGCAAGAAAGCAAGGGGCAATCTGCGATACAGGCGCTGCGCCGCGGCTGCTC	181
QY	182	ACCACTAGCATGGGGAATCTCTCATGCTACTTAAAGGCCGAGGCGCTGCAAGGCC	241
DB	182	ACCACTAGCATGGGGAATCTCTCATGCTACTTAAAGGCCGAGGCGCTGCAAGGCC	241
QY	242	GGGGGCAATTTGTGACCCCAATGCTGTGTGTGCGGAGCACTGTGCTCATCTTCAGG	301
DB	242	GGGGGCAATTTGTGACCCCAATGCTGTGTGTGCGGAGCACTGTGCTCATCTTCAGG	301
QY	302	AGTCAGGGGACTGAGAGGAGCAAGAACACTGAGACT	340
DB	302	AGTCAGGGGACTGAGAGGAGCAAGAACACTGAGACT	340

RESULT 5
 US-08-441-970-16
 Sequence 16, Application US/08441970
 Patent No. 6297370
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: WordPerfect 5.1
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-970-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.8e-61;
Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCCACAGTCACTGAAGAAGACATCAGAGTGAAGAGCCGTTATCTGTCCTGTTCACTT 61
DB 2 TCTACAGTCACTGAAGAAGACATCAGAGTGAAGAGCCGTTATCTGTCCTGTTCACTG 61
QY 62 CCCGAGAGAGCCCGAGCTGCCATACACTCACTAAGAGAGGCTGTACGTTGAGAGTCCC 121
DB 62 CCGAGAGAGGCTCGAAGTGCATACACTCACTAAGAGAGGCTGTACGTTGAGAGGCCCC 121
QY 122 ATGCAGAACGACGAGGGGCAATCTCGGATACAGGCGCTGCCGCGCAGCGGGTGCTC 181
DB 122 ATGACAAACGACGAGGGGCAATCTCGGATACAGGCGCTGCCGCGCAGCGGGTGCTC 181
QY 182 ACCACTAGCATGGGGAATCTCTACATGCTACTGAAGGCCAGAGGGGCTGACAGGGCC 241
DB 182 ACCACGAGCATGGGGAATCTCTACATGCTACTGAAGGCCAGAGGGGATGTACGCC 241
QY 242 GCGGCAATTGTTGCAACCAATGCTGTGTGTGCGAGCAGACCTGTGCTCATCTCAGAG 301
DB 242 GCGGCAATTGTTGCTCCCAATGCTGTGTGTGCGGCGAGACCTAAGTCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACCTGAGACT 340
DB 302 AGTCAGGGGCTCGAGAGATGAGCGAAACCTGAGACT 340

RESULT 6
US-08-441-971-15
Sequence 15, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-971-15

Query Match 72.5%; Score 246.4; DB 3; Length 340;
Best Local Similarity 83.3%; Pred. No. 2e-60;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCCACAGTCACTGAAGAAGACATCAGAGTGAAGAGCCGTTATCTGTCCTGTTCACTT 61
DB 2 TCTACAGTCACTGAAGAAGACATCAGAGTGAAGAGCCGTTATCTGTCCTGTTCACTG 61
QY 62 CCCGAGAGAGCCCGAGCTGCCATACACTCACTAAGAGAGGCTGTACGTTGAGAGTCCC 121
DB 62 CCGAGAGAGGCGCGAAGTGCATACACTCACTAAGAGAGGCTGTACGTTGAGAGGCCCC 121
QY 122 ATGCAGAACGACGAGGGGCAATCTCGGATACAGGCGCTGCCGCGCAGCGGGTGCTC 181
DB 122 ATGACAAACGACGAGGGGCAATCTCGGATACAGGCGCTGCCGCGCAGCGGGTGCTC 181
QY 182 ACCACTAGCATGGGGAATCTCTACATGCTACTGAAGGCCAGAGGGGCTGACAGGGCC 241
DB 182 ACCACGAGCATGGGGAATCTCTACATGCTACTGAAGGCCAGAGGGGATGTACGCC 241
QY 242 GCGGCAATTGTTGCAACCAATGCTGTGTGTGCGAGCAGACCTGTGCTCATCTCAGAG 301
DB 242 GCGGCAATTGTTGCTCCCAATGCTGTGTGTGCGGCGAGACCTGTTGTCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACCTGAGA 337
DB 302 AGTCAGGGGCTCGAGAGATGAGCGGAACCTGAGA 337

RESULT 7
US-08-221-653-15
Sequence 15, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match
Best Local Similarity 83.3%; Score 246.4; DB 3; Length 340;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCCACAGTCACTGMAAGAGACATCAGAGTTGAAGTCCGTTATCTGCTGTTCACTT 61
DB 2 TCTACAGTCAACAGAGAGGAGACATCAGAACCGAGATCCATCTATCTGCTGCTCAGTG 61
QY 62 CCCGAGAGGCCCGAGCTGCCATCACTCACTAAGAGGCTGTACGTTGAGAGTCC 121
DB 62 CCGTAGAGAGGCCGGAACCTCTATACACTGACTGAGAGACTGTACGTAAGGGGGGCC 121
QY 122 ATGCAGAAAGAGAGGGGCAATCCGCGGATACAGGCGCTGCCGCGCCGCGGGTGC 181
DB 122 ATGCAGAAAGAGAGGGGCAATCCGCGGATACAGGCGCTGCCGCGCCGCGGGTGC 181
QY 182 ACCACTAGCATGGGGAATCTCTACATGCTCTTGAAGGCCGAGCGGCTGCAGGGCC 241
DB 182 ACCACCAAGATGGGCAACGCTCACTGCTCACTGTAAGCCAGCGCGGTGAACGCC 241
QY 242 GCGGCGATTGTTGACCCCAATGCTGTGTGTGGGAGCACTGTGCTCATCTCAGAG 301
DB 242 GCGGCGATTGTTGCTCCCACTGTTGTGTGTGGGAGCACTGTGCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTTGAGA 337
DB 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTTGAGA 337

RESULT 8
US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Reall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Ordea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match
Best Local Similarity 83.3%; Score 246.4; DB 3; Length 340;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCCACAGTCACTGMAAGAGACATCAGAGTTGAAGTCCGTTATCTGCTGTTCACTT 61
DB 2 TCTACAGTCAACAGAGAGGAGACATCAGAACCGAGAGTCCATCTATCTGCTGCTCAGTG 61
QY 62 CCCGAGAGGCCCGAGCTGCCATCACTCACTAAGAGGCTGTACGTTGAGAGTCC 121
DB 62 CCGTAGAGAGGCCGGAACCTCTATACACTGACTGAGAGACTGTACGTAAGGGGGGCC 121
QY 122 ATGCAGAAAGAGAGGGGCAATCCGCGGATACAGGCGCTGCCGCGCCGCGGGTGC 181
DB 122 ATGCAGAAAGAGAGGGGCAATCCGCGGATACAGGCGCTGCCGCGCCGCGGGTGC 181
QY 182 ACCACTAGCATGGGGAATCTCTACATGCTCTTGAAGGCCGAGCGGCTGCAGGGCC 241
DB 182 ACCACCAAGATGGGCAACGCTCACTGCTCACTGTAAGCCAGCGCGGTGAACGCC 241
QY 242 GCGGCGATTGTTGACCCCAATGCTGTGTGTGGGAGCACTGTGCTCATCTCAGAG 301
DB 242 GCGGCGATTGTTGCTCCCACTGTTGTGTGTGGGAGCACTGTGCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTTGAGA 337
DB 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTTGAGA 337

RESULT 9
US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-May-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: m85110
US-08-441-970-15
Query Match 72.5%; Score 246.4; DB 3; Length 340;
Best Local Similarity 83.3%; Pred. No. 2e-60;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 2 TCCACAGTCACTGAAGAGACATCAGAGTGAAGAGCGCTTATCTGCTCTTCACCTT 61
DB 2 TCTACAGTCAACAAGAGGACATCAGAACCGAGAGTCACTATCTGCTCTCTCACTG 61
QY 62 CCCGAGAGGAGCCGAGCTGCATATACCTCACTCACTAAGAGGCTGTACGTGGAGGTCC 121
DB 62 CCGAGAGAGGCCCGGAATGCTATACCTCACTCACTGAGAGACTGTACGTAGGGGGGCC 121
QY 122 ATGCAGAAACAGCAAGGGGCAATCTCTCGGATACAGGCGCTGCCCGCCAGCGGGGTCTC 181
DB 122 ATGACAAACAGCAAGGGGCAATCTCTCGGATACAGGCGCTGCCCGCCAGCGGGGTCTC 181
QY 182 ACCACTAGCATGGGGAATATCTTCACTGCTAAGGCGGAGGCGGCGCTGAGGGCC 241
DB 182 ACCACGACATGGGGAATATCTTCACTGCTAAGGCGGAGGCGGCGCTGTAAGCC 241
QY 242 GCGGGCATTTGTCACCCCAATGCTGTGTGGCGACGACCTGTCTCATCTCAGAG 301
DB 242 GCGGGCATTTGTCACCCCAATGCTGTGTGGCGACGACCTGTCTCATCTCAGAG 301

DB 242 GCGGGCATTTGTCACCCCAATGCTGTGTGGCGACGACCTGTGTCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGAGCAACACTTGAGA 337
DB 302 AGTCAGGGGACTGAGAGGAGAGTACCGGAACCTTGAGA 337
RESULT 10
US-09-878-281A-145
Sequence 145, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 145
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-145
Query Match 71.2%; Score 242; DB 3; Length 340;
Best Local Similarity 82.2%; Pred. No. 3.5e-59;
Matches 278; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
QY 2 TCCACAGTCACTGAAGAGACATCAGAGTGAAGAGTCCGTTTATCTGCTCTTCACCTT 61
DB 2 TCAACGCTACGAGAGAGGACATCAGAACTGAGAGTCAATATACCTTGCTTGTCTTTA 61
QY 62 CCCGAGAGGAGCCCGAGCTGCCATATACCTCACTCACTAAGAGGCTGTAGTGGAGGTCC 121
DB 62 CCCGAGAGGAGCCGAGCTGCCATATACCTCACTCACTGAGAGGCTTTAGTGGAGGCCC 121
QY 122 ATGCAGAAACAGCAAGGGGCAATCTCTCGGATACAGGCGCTGCCCGCCAGCGGGGTCTC 181
DB 122 ATGCTAAACAGCAAGGGGCAATCTCTCGGATACAGGCGCTGCCCGCCAGCGGGGTCTC 181
QY 182 ACCACTAGCATGGGGAATATCTTCACTGCTAAGGCGGAGGCGGCGCTGACGGCC 241
DB 182 ACCACTAGCATGGGGAATATCTTCACTGCTAAGGCGGAGGCGGCGCTGTAAAGCT 241
QY 242 GCGGGCATTTGTCACCCCAATGCTGTGTGGCGACGACCTGTCTCATCTCAGAG 301
DB 242 GCGGGCATTTGTCACCCCAATGCTGTGTGGCGACGACCTGTCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGAGCAACACTTGAGAC 339
DB 302 AGTCAGGGGACTGAGAGGAGAGCAAGCAACTTGAGAC 339
RESULT 11
US-08-441-971-14
Sequence 14, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch

```
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-441-971-14
```

```
Query Match 71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;
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QY 2 TCACAGTCTAGTGAAGAGACATGAGTTGAAGTCCGTTATCTGTCCTTCACCTT 61
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2 TCTACAGTCACTGTAAGAGACATCACTCTAGAGTCCATCTACAGTCTCTTACTG 61
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 62 CCCGAGGAGGCCGAGCTGCCATTAACACTAATCTAGAGAGGCTGTACGTGGAGGTCC 121
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 62 CCCGAGGAGGCTCGAATCTGTATACACTCACTGAGAGACTATACGTAAGGGGGCCC 121
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 122 ATGCAAGACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGGGTGTCT 181
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 122 ATGCAAGACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGAGTGTCT 181
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 182 ACCACTAGCATGGGGAATCTCTCAATGCTACTTGAAGGCCAGGCGGCTGCAAGGCC 241
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 182 ACCACTAGCATGGGGAATCTCTCAATGCTACTTGAAGGCCAGGCGGCTGTAAGGCC 241
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 242 GCGGGGATTTGTCACCCCAATGCTGTGTGTGCGAGACCTGTGTCATCTCAGAG 301
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 242 GCGGGGATTTGTCCTCCACCAATGCTGTGTGTGCGAGACCTGTGTCATCTCAGAG 301
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 302 AGTCAAGGGGCTGAGAGAGACGAGCAACCTGAGA 337
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 302 AGTCAAGGGGCTGAGAGAGACGAGCAACCTGAGA 337
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RESULT 12
US-08-221-653-14
; Sequence 14, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
```

```
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-221-653-14
```

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Query Match 71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;
```

```
QY 2 TCACAGTCTAGTGAAGAGACATGAGTTGAAGTCCGTTATCTGTCCTTCACCTT 61
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2 TCTACAGTCACTGTAAGAGACATCACTCTAGAGTCCATCTACAGTCTCTTACTG 61
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 62 CCCGAGGAGGCCGAGCTGCCATTAACACTAATCTAGAGAGGCTGTACGTGGAGGTCC 121
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 62 CCCGAGGAGGCTCGAATCTGTATACACTCACTGAGAGACTATACGTAAGGGGGCCC 121
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 122 ATGCAAGACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGGGTGTCT 181
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DB 122 ATGCAAGACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGAGTGTCT 181
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 182 ACCACTAGCATGGGGAATCTCTCAATGCTACTTGAAGGCCAGGCGGCTGCAAGGCC 241
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 182 ACCACTAGCATGGGGAATCTCTCAATGCTACTTGAAGGCCAGGCGGCTGTAAGGCC 241
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 242 GCGGGGATTTGTCACCCCAATGCTGTGTGTGCGAGACCTGTGTCATCTCAGAG 301
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 242 GCGGGGATTTGTCCTCCACCAATGCTGTGTGTGCGAGACCTGTGTCATCTCAGAG 301
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 302 AGTCAAGGGGCTGAGAGAGACGAGCAACCTGAGA 337
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 302 AGTCAAGGGGCTGAGAGAGACGAGCAACCTGAGA 337
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```

```
RESULT 13
US-08-442-144A-14
; Sequence 14, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
```

```

APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSER: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-442-144A-14

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Query Match      71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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QY 2 TCACAGTCACTGAAAGACATCAGAGTGAAGAGTCCGTTATCTGCTCTTCACTT 61
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DB 2 TCTACAGTCACTGAAAGACATCAGAGTGAAGAGTCCGTTATCTGCTCTTCACTG 61
   |||||||
QY 62 CCCGAGAGGCCCCGAGCTGCATACCTCACTAAGAGGCTGTAAGTGGAGTCCC 121
   |||||||
DB 62 CCCGAGAGGCTCGAATCTGCTATCACTCACTGAGAGACTAATAGAGGAGGAGGCC 121
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QY 122 ATGCAAGACGCAAGGAGGCAATCTGCGATACAGAGGCTGCGCGCAAGCGGGTCTC 181
   |||||||
DB 122 ATGCAAGACGCAAGGAGGCAATCTGCGATACAGAGGCTGCGCGCAAGCGGGTCTC 181
   |||||||
QY 182 ACCACTAGCATGGGGAATACCTCACTGCTAAGAGGCCGAGGCGGCTGAGGGCC 241
   |||||||
DB 182 ACCACTAGCATGGGGAATACCTCACTGCTAAGAGGCCGAGGCGGCTGAGGGCC 241
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QY 242 GCGGGCATTTGTTGCTCCACCATCTGTTGCGGTACCGACTGCTGCTATCTCAGAG 301
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DB 242 GCGGGCATTTGTTGCTCCACCATCTGTTGCGGTACCGACTGCTGCTATCTCAGAG 301
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QY 302 AGTCAGGGGACTGAGAGGAGAGAGCAACCTTGAGA 337
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DB 302 AGTCAGGGGACTGAGAGGAGAGAGCAACCTTGAGA 337
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RESULT 14
US-08-441-970-14
Sequence 14, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-441-970-14

```

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Query Match      71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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QY 2 TCACAGTCACTGAAAGACATCAGAGTGAAGAGTCCGTTATCTGCTCTTCACTT 61
   |||||||
DB 2 TCTACAGTCACTGAAAGACATCAGAGTGAAGAGTCCGTTATCTGCTCTTCACTG 61
   |||||||
QY 62 CCCGAGAGGCCCCGAGCTGCATACCTCACTAAGAGGCTGTAAGTGGAGTCCC 121
   |||||||
DB 62 CCCGAGAGGCTCGAATCTGCTATCACTCACTGAGAGACTAATAGAGGAGGAGGCC 121
   |||||||
QY 122 ATGCAAGACGCAAGGAGGCAATCTGCGATACAGAGGCTGCGCGCAAGCGGGTCTC 181
   |||||||
DB 122 ATGCAAGACGCAAGGAGGCAATCTGCGATACAGAGGCTGCGCGCAAGCGGGTCTC 181
   |||||||
QY 182 ACCACTAGCATGGGGAATACCTCACTGCTAAGAGGCCGAGGCGGCTGAGGGCC 241
   |||||||
DB 182 ACCACTAGCATGGGGAATACCTCACTGCTAAGAGGCCGAGGCGGCTGAGGGCC 241
   |||||||
QY 242 GCGGGCATTTGTTGCTCCACCATCTGTTGCGGTACCGACTGCTGCTATCTCAGAG 301
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DB 242 GCGGGCATTTGTTGCTCCACCATCTGTTGCGGTACCGACTGCTGCTATCTCAGAG 301
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Qy 302 AGTCAGGGGACTGAGAGGGGACGAGAACACCTGAGA 337
Db 302 AGTCAGGGGCTGAGAGGAGGACGAGAACCTGAGA 337

RESULT 15

US-07-925-695-4
Sequence 4, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2693 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-4

Query Match 70.7%; Score 240.4; DB 2; Length 2693;
Best Local Similarity 82.0%; Pred. No. 1.7e-58;
Matches 277; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

Qy 2 TCACAGTCTGTAAGAGACATCAGAGTTCGCTTATCTGCTCTGTTCACTT 61
Db 2335 TCACCGCTCACTGAGAGAGATCAGAGCTGAGAGTCCATATATCGGGCTTGTTCCTTG 2394
Qy 62 CCCGAGAGGCCCCGAGCTGCTCATACCTACTAAGAGGCTGTACGTGGAGGTC 121
Db 2395 CCCGAGAGGCCCCACACTGCTCATACCTACTGAGAGACTTACGTGGAGGCCCC 2454
Qy 122 ATGCAAGACAGAGAGGGGCAATCTCGGGATACAGGGGCTGCCGCGCAGGGGGTGTCTC 181
Db 2455 ATGTTCAACAGAGAGGCGCAAGCTCTGCGGGTACAGGGCTTGGCGGCCAGCGGGTGTCTT 2514
Qy 182 ACCACTAGCATGGGGAATATCTTCACATCTACTTGAAGGCCAGGGCGGCTGCAAGGCC 241

Db 2515 ACCACTAGCATGGGGAACACCATCATGCTATGTGAAGCCTTACGGGCTGTAAAGGCT 2574
Qy 242 GCGGGCATTTGTTGACACCCCAATGCTGTGTGGGAGGACCTGTGTCATCTCAGAG 301
Db 2575 GCAAGGATTAATGCGCCACAAATGCTGTATGCGGCGATGACTTGTGTCAATCTCAGAG 2634
Qy 302 AGTCAGGGGACTGAGAGGAGGAGGAGAACACCTGAGACC 339
Db 2635 AGCCAGGGGACCGAGAGAGAGGAGCGGAACTGTAGAGC 2672

Search completed: January 11, 2006, 10:56:48
Job time : 83.331 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds

(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-79

Perfect score: 340

Sequence: 1 ctccacagctcacgagagaggg.....acgagcgaatctgagagtc 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

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- 2: /cgn2_6/prodata/1/ina/5_COMB.seq:*
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- 4: /cgn2_6/prodata/1/ina/6B_COMB.seq:*
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- 8: /cgn2_6/prodata/1/ina/RE_COMB.seq:*
- 9: /cgn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	340	100.0	340	3	US-08-836-075A-79
2	264.8	77.9	340	3	US-08-836-075A-71
3	253.6	74.6	340	3	US-08-836-075A-73
4	252	74.1	2693	2	US-07-925-695-4
5	252	74.1	9589	2	US-07-925-695-1
6	252	74.1	9589	2	US-07-925-695-2
7	248.4	73.1	340	3	US-08-441-971-13
8	248.4	73.1	340	3	US-08-221-653-13
9	248.4	73.1	340	3	US-08-442-144A-13
10	248.4	73.1	340	3	US-08-441-970-13
11	245.6	72.2	340	3	US-09-878-281A-145
12	242.4	71.3	340	3	US-08-441-971-15
13	242.4	71.3	340	3	US-08-221-653-15
14	242.4	71.3	340	3	US-08-442-144A-15
15	242.4	71.3	340	3	US-08-441-970-15
16	238.8	70.2	340	3	US-08-441-971-16
17	238.8	70.2	340	3	US-08-221-653-16
18	238.8	70.2	340	3	US-08-442-144A-16
19	238.8	70.2	340	3	US-08-441-970-16
20	236.4	69.5	340	3	US-08-836-075A-69
21	234	68.8	340	3	US-09-878-281A-215
22	233.6	68.7	9511	2	US-07-925-695-6
23	233.6	68.7	9511	2	US-07-925-695-7
24	232.4	68.4	340	3	US-08-441-971-17

25	232.4	68.4	340	3	US-08-221-653-17	Sequence 17, Appl
26	232.4	68.4	340	3	US-08-442-144A-17	Sequence 17, Appl
27	232.4	68.4	340	3	US-08-441-970-17	Sequence 17, Appl
28	231.2	68.0	340	3	US-08-441-971-14	Sequence 14, Appl
29	231.2	68.0	340	3	US-08-221-653-14	Sequence 14, Appl
30	231.2	68.0	340	3	US-08-442-144A-14	Sequence 14, Appl
31	231.2	68.0	340	3	US-08-441-970-14	Sequence 14, Appl
32	228.8	67.3	340	3	US-08-836-075A-77	Sequence 17, Appl
33	229.8	67.3	335	3	US-08-836-075A-101	Sequence 101, App
34	207.8	61.7	340	3	US-08-836-075A-105	Sequence 105, App
35	200.8	59.1	340	3	US-08-836-075A-99	Sequence 99, Appl
36	165.6	48.7	1782	3	US-09-597-877-11	Sequence 11, Appl
37	165.2	48.6	340	3	US-08-836-075A-57	Sequence 57, Appl
38	164	48.2	1773	3	US-09-194-949A-14	Sequence 14, Appl
39	160.8	47.3	340	3	US-08-441-971-12	Sequence 12, Appl
40	160.8	47.3	340	3	US-08-221-653-12	Sequence 12, Appl
41	160.8	47.3	340	3	US-08-442-144A-12	Sequence 12, Appl
42	160.8	47.3	340	3	US-08-441-970-12	Sequence 12, Appl
43	160.4	47.2	340	3	US-08-836-075A-55	Sequence 55, Appl
44	159.2	46.8	340	3	US-08-441-971-8	Sequence 8, Appl
45	159.2	46.8	340	3	US-08-836-075A-61	Sequence 61, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-79
Sequence 79, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARMOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 79:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-79

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 4.3e-92;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCACAGTCACGAGAGGAGGACATCGAATGAGGATTCCTGGCTCGCT 60
DB 1 CTCACAGTCACGAGAGGAGGACATCGAATGAGGATTCCTGGCTCGCT 60
QY 61 GCCCGAGAGGCCCCGAGCTGTCAATTCCTCACTGAGAGCTTCAATAGCGGCGC 120
DB 61 GCCCGAGAGGCCCCGAGCTGTCAATTCCTCACTGAGAGCTTCAATAGCGGCGC 120
QY 121 GATGATGAACAGCAAAAGCCAGTCTGTGTGATACAGGCGTTGTCCGCGCAGCGGCTGT 180
DB 121 GATGATGAACAGCAAAAGCCAGTCTGTGTGATACAGGCGTTGTCCGCGCAGCGGCTGT 180
QY 181 CACCACTAGCATGAGGAGGATTAACATCACTGCTATGTGAAAGCCATGCGAGCTTGCAGAGC 240
DB 181 CACCACTAGCATGAGGAGGATTAACATCACTGCTATGTGAAAGCCATGCGAGCTTGCAGAGC 240
QY 241 TCCCGGAGATTGACGCCCCCAATGTTGGTATGTGGCGAGCACTGTGTGATCTCAGA 300
DB 241 TCCCGGAGATTGACGCCCCCAATGTTGGTATGTGGCGAGCACTGTGTGATCTCAGA 300
QY 301 GAGTCAGGGAGCCGAGAGAGAGAGCGAAATCTGAGAGTC 340
DB 301 GAGTCAGGGAGCCGAGAGAGAGAGCGAAATCTGAGAGTC 340
```

RESULT 2

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 77.9%; Score 264.8; DB 3; Length 340;
Best Local Similarity 86.2%; Pred. No. 1.4e-69;
Matches 293; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY 1 CTCACAGTCACGAGAGGAGGACATCGAATGAGGATTCCTGGCTCGCT 60
DB 1 CTCACAGTCACGAGAGGAGGATTAAGATCGAAGATTCATTAACCTGGCTCGCT 60
QY 61 GCCCGAGAGGCCCCGAGCTGTCAATTCCTCACTGAGAGCTTCAATAGCGGCGC 120
DB 61 ACCGAGAGAGGCCCCGAGCTGTCAATTCCTCACTGAGAGCTTCAATAGCGGCGC 120
QY 121 GATGATGAACAGCAAAAGCCAGTCTGTGTGATACAGGCGTTGTCCGCGCAGCGGCTGT 180
DB 121 CATGATGAACAGCAAAAGCCAGTCTGTGTGATACAGGCGTTGTCCGCGCAGCGGCTGT 180
QY 181 CACCACTAGCATGAGGAGGATTAACATCACTGCTATGTGAAAGCCATGCGAGCTTGCAGAGC 240
DB 181 CACCACTAGCATGAGGAGGATTAACATCACTGCTATGTGAAAGCCATGCGAGCTTGCAGAGC 240
QY 241 TCCCGGAGATTGACGCCCCCAATGTTGGTATGTGGCGAGCACTGTGTGATCTCAGA 300
DB 241 TCCCGGAGATTGTTGCCCCACGATGCTGTGTGGCGGATGACCTGTGTGATCTCAGA 300
QY 301 GAGTCAGGGAGCCGAGAGAGAGAGCGAAATCTGAGAGTC 340
DB 301 GAGTCAGGGAGCCGAGAGAGAGAGCGAAATCTGAGAGTC 340
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RESULT 3

US-08-836-075A-73
Sequence 73, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-73

Query Match 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 3.1e-66;
Matches 286; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCACAGTCACGAGAGGAGGACATCAGATGAGAGGATCATATTCTGGCTGCTGCT 60
DB 1 CTCACAGTCACGAGAGGAGGACATCAGAGGAGGAGGATCATATTCTGGCTGCTGCT 60
QY 61 GCCCGAGAGGCGCCGACTGTCTATACATTCGCTCACTGAGAGACTTACATAGCGCGCC 120
DB 61 ACCCGAGAGGCGCCGACTGTCTATACATTCGCTCACTGAGAGACTTACATAGCGCGCC 120
QY 121 GATGATGAACAGCAAGAGGCGAGTCTCTGTGATACAGGCGCTGTCCGCGCAGCGGGTGT 180
DB 121 GATGATGAACAGCAAGAGGCGAGTCTCTGTGATACAGGCGCTGTCCGCGCAGCGGGTGT 180
QY 181 CACCACTAGCATGAGGAGATACCATCATCGTGTATGTGAAGCATGGAGCTTGGCAGAGC 240
DB 181 CACCACTAGCATGAGGAGATACCATCATCGTGTATGTGAAGCATGGAGCTTGGCAGAGC 240
QY 241 TCCCGGATTTGACGCCCCCAATGTTGTATGTGCGAGCAGACTGTGTGATCTCAGA 300
DB 241 TCCCGGATTTGACGCCCCCAATGTTGTATGTGCGAGCAGACTGTGTGATCTCAGA 300
QY 301 GAGTCAGGGAGCCGAGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
DB 301 GAGTCAGGGAGCCGAGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340

RESULT 4
US-07-925-695-4
Sequence 4, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91

FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WU1 64470
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2693 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-4

Query Match 74.1%; Score 252; DB 2; Length 2693;
Best Local Similarity 83.8%; Pred. No. 1.8e-65;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCACAGTCACGAGAGGAGGACATCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 60
DB 2334 CTCACAGTCACGAGAGGAGGACATCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2393
QY 61 GCCCGAGAGGCGCCGACTGTCTATACATTCGCTCACTGAGAGACTTACATAGCGCGCC 120
DB 61 GCCCGAGAGGCGCCGACTGTCTATACATTCGCTCACTGAGAGACTTACATAGCGCGCC 120
QY 121 GATGATGAACAGCAAGGCGAGTCTGTGATGATGAGGCGGTTGTGCGCGCAGCGGGTGT 180
DB 121 GATGATGAACAGCAAGGCGAGTCTGTGATGATGAGGCGGTTGTGCGCGCAGCGGGTGT 180
QY 2454 CATGTTCAACAGCAAGGCGAGTCTGTGATGATGAGGCGGTTGTGCGCGCAGCGGGTGT 2513
DB 2454 CATGTTCAACAGCAAGGCGAGTCTGTGATGATGAGGCGGTTGTGCGCGCAGCGGGTGT 2513
QY 181 CACCACTAGCATGAGGAGATACCATCATCGTGTATGTGAAGCATGGAGCTTGGCAGAGC 240
DB 2514 TACCACTAGCATGAGGAGATACCATCATCGTGTATGTGAAGCATGGAGCTTGGCAGAGC 2573
QY 241 TCCCGGATTTGACGCCCCCAATGTTGTATGTGCGAGCAGACTGTGTGATCTCAGA 300
DB 2574 TCCCGGATTTGACGCCCCCAATGTTGTATGTGCGAGCAGACTGTGTGATCTCAGA 2633
QY 301 GAGTCAGGGAGCCGAGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
DB 2634 GAGTCAGGGAGCCGAGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2673

RESULT 5
US-07-925-695-1
Sequence 1, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

STATE: Massachusetts

COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: ms5k2
INDIVIDUAL ISOLATE: ms5k2
US-08-441-971-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1,1e-64;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 1 CTCACAGTACGAGGAGGAGATCAGAAATGAGAGTCCATATTCCTGGCTGCTGTT 60
DB 1 CTCACAGTACGAGGAGGAGATCAGAAATGAGAGTCCATATTCCTGGCTGCTGTT 60
QY 61 GCCCGAGAGGCGCCGAGCTGTATTCATTCCTGCTACTGAGAGCTTCAATAGGCGGCGC 120
DB 61 GCCCGAGAGGCGCCGAGCTGTATTCATTCCTGCTACTGAGAGCTTCAATAGGCGGCGC 120
QY 121 GATGATGAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTCCGGCCAGCGGGGTGT 180
DB 121 GATGATGAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTCCGGCCAGCGGGGTGT 180
QY 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCCATGAGCTTGGAGAGC 240
DB 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCCATGAGCTTGGAGAGC 240
QY 241 TCCCGGATTTAGCGCCCCCAATGTTGTATGTGCGCAGCACTGCTGTCTATCTCAGA 300
DB 241 TCCCGGATTTAGCGCCCCCAATGTTGTATGTGCGCAGCACTGCTGTCTATCTCAGA 300
QY 301 GAGTCAGGAGACCGAGAGAGAGAGGAAATCTGAGAG 338
DB 301 AAGCCAGGAGACTGAGAGAGAGAGGAGGAACTTGAAG 338

RESULT 8
US-08-221-653-13
Sequence 13, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: ms5k2
INDIVIDUAL ISOLATE: ms5k2
US-08-221-653-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1,1e-64;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 1 CTCACAGTACGAGGAGGAGATCAGAAATGAGAGTCCATATTCCTGGCTGCTGTT 60
DB 1 CTCACAGTACGAGGAGGAGATCAGAAATGAGAGTCCATATTCCTGGCTGCTGTT 60
QY 61 GCCCGAGAGGCGCCGAGCTGTATTCATTCCTGCTACTGAGAGCTTCAATAGGCGGCGC 120
DB 61 GCCCGAGAGGCGCCGAGCTGTATTCATTCCTGCTACTGAGAGCTTCAATAGGCGGCGC 120
QY 121 GATGATGAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTCCGGCCAGCGGGGTGT 180
DB 121 GATGATGAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTCCGGCCAGCGGGGTGT 180
QY 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCCATGAGCTTGGAGAGC 240
DB 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCCATGAGCTTGGAGAGC 240
QY 241 TCCCGGATTTAGCGCCCCCAATGTTGTATGTGCGCAGCACTGCTGTCTATCTCAGA 300
DB 241 TCCCGGATTTAGCGCCCCCAATGTTGTATGTGCGCAGCACTGCTGTCTATCTCAGA 300
QY 301 GAGTCAGGAGACCGAGAGAGAGAGGAAATCTGAGAG 338
DB 301 AAGCCAGGAGACTGAGAGAGAGAGGAGGAACTTGAAG 338

RESULT 9
US-08-442-144A-13

Sequence 13, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Valiko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: ns5k2
INDIVIDUAL ISOLATE: ns5k2
US-08-442-144A-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1.1e-64;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCTCTT 60
DB 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCTCTT 60
QY 61 GCCCGAGGAGGCCCGGAGCTGTCTATCATTTGCTCATGAGACTTACATAGGCGGGCC 120
DB 61 GCCCGAGGAGGCCCGGAGCTGTCTATCATTTGCTCATGAGACTTACATAGGCGGGCC 120
QY 121 GATGATGAAGCAAGCAAGGCGAGTCTGTGATACAGGCGTGTGCGGCGAGCGGGGTGT 180
DB 121 CATGTTCAACAGCAAGGCGGAGACTGTGCGGCTTACAGGCGGCGGAGGCTGCT 180
QY 181 CACCACTAGCATGGGCAATACATCACTGCTATGTGAAAGCCATGGAGCTTGCAAGC 240
DB 181 CACCACTAGCATGGGCAAGCAATCACTGCTATGTGAAAGCCATGGAGCTTGCAAGC 240
QY 241 TGGCGGATTTGACGCCCCCAATGTTGGTATGTGGCAGACCTGGTGTCTATCTCA 300
DB 241 TGGCGGATTTGACGCCCCCAATGTTGGTATGTGGCAGACCTGGTGTCTATCTCA 300
QY 300 241 TGGCGGATTTGACGCCCCCAATGTTGGTATGTGGCAGACCTGGTGTCTATCTCA 300
DB 300 241 TGGCGGATTTGACGCCCCCAATGTTGGTATGTGGCAGACCTGGTGTCTATCTCA 300

QY 301 GAGTCAGGAGGACCGAGAGGAGCGAAGCAATCTGAGAG 338
DB 301 AAGCCAGGAGGAGCTGAGAGGAGCGAGCGGAGCTGAGAG 338

RESULT 10
US-08-441-970-13
Sequence 13, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: ns5k2
INDIVIDUAL ISOLATE: ns5k2
US-08-441-970-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1.1e-64;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCTCTT 60
DB 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCTCTT 60
QY 61 GCCCGAGGAGGCCCGGAGCTGTCTATCATTTGCTCATGAGACTTACATAGGCGGGCC 120
DB 61 GCCCGAGGAGGCCCGGAGCTGTCTATCATTTGCTCATGAGACTTACATAGGCGGGCC 120
QY 121 GATGATGAAGCAAGCAAGGCGAGTCTGTGATACAGGCGTGTGCGGCGAGCGGGGTGT 180
DB 121 CATGTTCAACAGCAAGGCGGAGACTGTGCGGCTTACAGGCGGCGGAGGCTGCT 180
QY 181 CACCACTAGCATGGGCAATACATCACTGCTATGTGAAAGCCATGGAGCTTGCAAGC 240
DB 181 CACCACTAGCATGGGCAACCATCATCATGCTATGTGAAAGCCCTTACGCGCTTGCAAGC 240

TITLE OF INVENTION: DIAGNOSTICS AND THERAPY

NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15
Query Match 71.3%; Score 242.4; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 7e-63;
Matches 279; Conservative 0; Mismatches 61; Indels 0; Gaps 0;
QY 1 CTCACAGTCACGAGAGGAGCATCAGATAGAGGATTCCTTGGCCCTGCTGCT 60
DB 1 CTCCTACAGTCACGAGAGGAGCATCAGAACCGAGAGTCATCTATCTGCTGCTCACT 60
QY 61 GCCCGAGAGGCCCGGAGCTGTCAATTCGCTCACTGAGAGACTCTACATAGGCGGGCC 120
DB 61 GCTTAGAGAGGCCCGGAGCTGTCTATCACTCACTGACTGAGAGACTGTACGTAGGGGGCC 120
QY 121 GATGATGAACAGCAAAAGGCGAGTCTGTGTGATACAGGCGGTGTGCGGCCAGCGGGGTGTT 180
DB 121 CATGACAAACAGCAAGGGGCAATCTGCGGGGTACAGGCGGTGCGCGGAGCGAGTGTCT 180
QY 181 CACCATAGCATGGGCAATCCATCACGTGTCTATGTGAAAGCCATGGCAGCTTGCAGAGC 240
DB 181 CACCAACAGCATGGGCAACACGCTCACGTCTACGTGAAAGCCAGAGCGCGCGTGTAAACG 240
QY 241 TGCGGGATTTGAGCGCCGCCCAATGTTGTATGTGAGCAGCACTGAGTGTCTCAGAG 300
DB 241 CGGGGCAATTTGTTCTCCACCATGTTGTGTGCGGAGCAGCACTGTTGTCTCAGAG 300
QY 301 GAGTCAGGGAGCCGAGAGAGCAGCGCAAACTTGAGAGTC 340
DB 301 GAGTCAGGGGCTCGAGGAAAGATGAGCGGAACTTGAGAGTC 340
RESULT 14
US-08-442-144A-15
; Sequence 15, Application US/08442144A

Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urddea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15
Query Match 71.3%; Score 242.4; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 7e-63;
Matches 279; Conservative 0; Mismatches 61; Indels 0; Gaps 0;
QY 1 CTCACAGTCACGAGAGGAGCATCAGATAGAGGATTCCTTGGCCCTGCTGCT 60
DB 1 CTCCTACAGTCACGAGAGGAGCATCAGAACCGAGAGTCATCTATCTGCTGCTCACT 60
QY 61 GCCCGAGAGGCCCGGAGCTGTCAATTCGCTCACTGAGAGACTCTACATAGGCGGGCC 120
DB 61 GCTTAGAGAGGCCCGGAGCTGTCTATCACTCACTGACTGAGAGACTGTACGTAGGGGGCC 120
QY 121 GATGATGAACAGCAAAAGGCGAGTCTGTGTGATACAGGCGGTGTGCGGCCAGCGGGGTGTT 180
DB 121 CATGACAAACAGCAAGGGGCAATCTGCGGGGTACAGGCGGTGCGCGGAGCGAGTGTCT 180
QY 181 CACCATAGCATGGGCAATCCATCACGTGTCTATGTGAAAGCCATGGCAGCTTGCAGAGC 240
DB 181 CACCAACAGCATGGGCAACACGCTCACGTCTACGTGAAAGCCAGAGCGCGCGTGTAAACG 240
QY 241 TGCGGGATTTGAGCGCCGCCCAATGTTGTATGTGAGCAGCACTGAGTGTCTCAGAG 300
DB 241 CGGGGCAATTTGTTCTCCACCATGTTGTGTGCGGAGCAGCACTGTTGTCTCAGAG 300
QY 301 GAGTCAGGGAGCCGAGAGAGCAGCGCAAACTTGAGAGTC 340

Db 301 GAGTCAGGGGGTTCGAGAGATGAGCGGAACCTGAGAGTC 340

RESULT 15
US-08-441-970-15
; Sequence 15, Application US/08441970
; Patent No. 629370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5110
; US-08-441-970-15

Query Match 71.3%; Score 242.4; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 76-63;
Matches 279; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 1 CTCACAGTACGAGAGGAGATCAGATAGAGATCCATATTCCTGCTCGTT 60
Db 1 CTCACAGTACGAGAGGAGATCAGATAGAGATCCATATTCCTGCTCGTT 60
QY 61 GCCCGAGAGAGGCGCCGAGCTGATCATTCGCTCACTGAGAGACTTACATAGAGGCGGCGC 120
Db 61 GCCCGAGAGAGGCGCCGAGCTGATCATTCGCTCACTGAGAGACTTACATAGAGGCGGCGC 120
QY 121 GATGATGACAGCAAAAGCCAGTCTGTGTGATACAGGCGTTTCGCGCCAGCGGGGTGT 180
Db 121 CATGACAAACAGCAAGGGGCAATCTCGCGGTACAGGCGTTTCGCGCCAGCGGAGTGT 180
QY 181 CACCACTAGCATGGGCAATACATCACTGCTATGTGAAAAGCCATGGCAGCTTGCAAGC 240
Db 181 CACCACTAGCATGGGCAATACATCACTGCTATGTGAAAAGCCATGGCAGCTTGTAAGC 240

QY 241 TGCCGGATGACGCCCCACAAATGTTGGTATGTGGCAGCAGCCTGTGTATCTCAGA 300
Db 241 CGCGGGCATTTGTGTCTCCACCATGTTGTGTGGCGGCGACGACCTGTTGTATCTCAGA 300
QY 301 GAGTCAGGGGACCGAGAGAGACGAGCGAAATCTGAGAGTC 340
Db 301 GAGTCAGGGGGTTCGAGAGATGAGCGGAGACCTGAGAGTC 340

Search completed: January 11, 2006, 10:56:49
Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-81

Perfect score: 340

Sequence: 1 cctctgactctactgctact.....gatgagagatagggcagc 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued Patents, NA:*

1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfilltest1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	339.6	99.9	340	US-08-836-075A-81	Sequence 81, Appl
2	213.4	62.8	340	US-08-441-971-22	Sequence 22, Appl
3	213.4	62.8	340	US-08-221-653-22	Sequence 22, Appl
4	213.4	62.8	340	US-08-442-144A-22	Sequence 22, Appl
5	213.4	62.8	340	US-08-441-970-22	Sequence 22, Appl
6	211.8	62.3	340	US-08-441-971-20	Sequence 20, Appl
7	211.8	62.3	340	US-08-221-653-20	Sequence 20, Appl
8	211.8	62.3	340	US-08-442-144A-20	Sequence 20, Appl
9	211.8	62.3	340	US-08-441-970-20	Sequence 20, Appl
10	209.8	61.7	340	US-09-674-677-6	Sequence 6, Appl
11	207	60.9	340	US-08-441-971-21	Sequence 21, Appl
12	207	60.9	340	US-08-221-653-21	Sequence 21, Appl
13	207	60.9	340	US-08-442-144A-21	Sequence 21, Appl
14	207	60.9	340	US-08-441-970-21	Sequence 21, Appl
15	203.8	59.9	340	US-09-878-281A-217	Sequence 217, Appl
16	198.4	58.4	340	US-08-836-075A-97	Sequence 97, Appl
17	169.4	48.8	280	US-09-878-281A-149	Sequence 149, Appl
18	167.8	49.4	340	US-08-836-075A-85	Sequence 85, Appl
19	167	49.1	340	US-08-836-075A-87	Sequence 87, Appl
20	166.4	48.9	340	US-09-878-281A-108	Sequence 108, Appl
21	166.4	48.9	340	US-09-878-281A-112	Sequence 112, Appl
22	166.4	48.9	340	US-09-878-281A-201	Sequence 201, Appl
23	166.4	48.9	6189	US-10-259-275-41	Sequence 41, Appl
24	166.4	48.9	7989	US-09-539-601-10	Sequence 10, Appl

25	166.4	48.9	7992	3	US-10-005-469-1	Sequence 1, Appl
26	166.4	48.9	7992	3	US-10-005-469-2	Sequence 2, Appl
27	166.4	48.9	7992	3	US-10-005-469-4	Sequence 4, Appl
28	166.4	48.9	7992	3	US-10-005-469-5	Sequence 5, Appl
29	166.4	48.9	7992	3	US-10-005-469-6	Sequence 6, Appl
30	166.4	48.9	7995	3	US-10-005-469-3	Sequence 3, Appl
31	166.4	48.9	8001	3	US-09-539-601-7	Sequence 7, Appl
32	166.4	48.9	8001	3	US-09-539-601-22	Sequence 22, Appl
33	166.4	48.9	8001	3	US-09-539-601-28	Sequence 28, Appl
34	166.4	48.9	8637	3	US-09-539-601-4	Sequence 4, Appl
35	166.4	48.9	8638	3	US-10-029-907-6	Sequence 6, Appl
36	166.4	48.9	8638	3	US-10-029-907-7	Sequence 7, Appl
37	166.4	48.9	8638	3	US-10-029-907-24	Sequence 24, Appl
38	166.4	48.9	8638	3	US-10-029-907-25	Sequence 25, Appl
39	166.4	48.9	8638	3	US-10-309-561A-6	Sequence 6, Appl
40	166.4	48.9	8638	3	US-10-309-561A-7	Sequence 7, Appl
41	166.4	48.9	8638	3	US-10-309-561A-24	Sequence 24, Appl
42	166.4	48.9	8638	3	US-10-309-561A-25	Sequence 25, Appl
43	166.4	48.9	8639	3	US-10-029-907-1	Sequence 1, Appl
44	166.4	48.9	8639	3	US-10-309-561A-1	Sequence 1, Appl
45	166.4	48.9	8642	3	US-10-029-907-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-81
; Sequence 81, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARMOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; INFORMATION FOR SEQ ID NO: 81:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5gh8

US-08-221-653-22

Query Match 62.8%; Score 213.4; DB 3; Length 340;
Best Local Similarity 78.8%; Pred. No. 9.7e-59;
Matches 253; Conservative 1; Mismatches 67; Indels 0; Gaps 0;

QY 8 CTCTACTGTCATGTAACAGATATCAGGGGTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCAACTGTCTGACAGACAGACATCAGGTGAGAGAGATATACCAATGCTGTAACT 60
QY 68 TGAGCCGAGGCTAGACCGGCAATCAATCGCTCAGGACCGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGAGGAAAGTATCTCCCTCCCTCAGGAGCGCTTTACTGGGGGGCCC 120
QY 128 CATGTTCAACAGCAAGGGGCTCAAAATGCGGATATGCGGTTGCCGTGCTAGCGGTATTT 187
DB 121 TATGTTCAACAGCAAGGGGGCCAGTGTGTTATGCGGTTGCCGTGCAAGTGAATTCT 180
QY 188 GCCCACTGCTACGCTTAATATCAATCCTGCTACATCAAGGCGCAAGGGGCTGCTCGAGC 247
DB 181 GCTTACAGCTTCGGCAACACATCATCTGTATCAATCAAGGCGGCTGCGGAGGC 240
QY 248 TCGGGGCTTCAAGACCATCATTCCTTCTCGCGAGATGATTTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTCCGGAACCCGGAATCTTCTGTCTGCGGAGATATCTGTTGTGTGCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTGATGCGCTCATATGAGA 321

RESULT 4

US-08-442-144A-22

Sequence 22, Application US/08442144A

Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

APPLICANT: Eileen Beall

APPLICANT: Bruce Irvine

APPLICANT: Janice Kolberg

APPLICANT: Michael S. Urdea

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

NUMBER OF SEQUENCES: 148

CORRESPONDENCE ADDRESS:

ADDRESSEE: Chiron Corporation

STREET: 4560 Horton Street

CITY: Emeryville

STATE: California

COUNTRY: USA

ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows NT

SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/442.144A

FILING DATE: MAY 16, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653

FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Doreen Yanko Trujillo

REGISTRATION NUMBER: 35,719

REFERENCE/DOCKET NUMBER: CHIR-0121

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-568-3100

TELEFAX: 215-568-3439

TELEX:

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 Nucleotides

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5gh8

US-08-442-144A-22

Query Match 62.8%; Score 213.4; DB 3; Length 340;
Best Local Similarity 78.8%; Pred. No. 9.7e-59;
Matches 253; Conservative 1; Mismatches 67; Indels 0; Gaps 0;

QY 8 CTCTACTGTCATGTAACAGATATCAGGGGTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCAACTGTCTGACAGACAGACATCAGGTGAGAGAGATATACCAATGCTGTAACT 60
QY 68 TGAGCCGAGGCTAGACCGGCAATCAATCGCTCAGGACCGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGAGGAAAGTATCTCCCTCCCTCAGGAGCGCTTTACTGGGGGGCCC 120
QY 128 CATGTTCAACAGCAAGGGGCTCAAAATGCGGATATGCGGTTGCCGTGCTAGCGGTATTT 187
DB 121 TATGTTCAACAGCAAGGGGGCCAGTGTGTTATGCGGTTGCCGTGCAAGTGAATTCT 180
QY 188 GCCCACTGCTACGCTTAATATCAATCCTGCTACATCAAGGCGCAAGGGGCTGCTCGAGC 247
DB 181 GCTTACAGCTTCGGCAACACATCATCTGTATCAATCAAGGCGGCTGCGGAGGC 240
QY 248 TCGGGGCTTCAAGACCATCATTCCTTCTCGCGAGATGATTTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTCCGGAACCCGGAATCTTCTGTCTGCGGAGATATCTGTTGTGTGCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTGATGCGCTCATATGAGA 321

RESULT 5

US-08-441-970-22

Sequence 22, Application US/08441970

Patent No. 6297370

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5gh8
US-08-441-970-22

Query Match 62.8%; Score 213.4; DB 3; Length 340;
Best Local Similarity 78.8%; Pred. No. 9.7e-59;
Matches 253; Conservative 1; Mismatches 67; Indels 0; Gaps 0;

QY 8 CTCCTACTGCTAGAACAGATATCAGGCTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCCTACTGCTAGAACAGATATCAGGCTAGAGAGAAATATACCAATGTTGACCT 60
QY 68 TGAGCCGAGGCTAGACGGGCAATCAATCGCTACGAGAACGGCTTTACGTTGAGGTC 127
DB 61 TGAACCGAGGCGAGGAAGATGATCTCTCCCTACGAGAACGGCTTTACGCGGGGGCCC 120
QY 128 CATGTTCAACAGCAGAGGGGCTCAATGCGGATATGCGCGTTCGCTAGCGGTGTATT 187
DB 121 TATGTTCAACAGCAGAGGGGGCCAGTGTGTTATCGCCGTTGCCGTCAGTGGAGTTCT 180
QY 188 GCCCACTAGCTACGGTATATCAATCACTGCTACATCAAGCCAGAGCGGCTGCTGAGC 247
DB 181 GCTTACAGCTTCGGGACACATCACTGTTTACATCAAGCTAGAGCGGCTGCCGAGC 240
QY 248 TCGGGCCCTTCAAGACCCATCATTCCTTGTCTGCGGAGATGATTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTCCGGAGACCGGACTTTCTTGTCTGCGGAGATGATCTGTTGTGTGGCTGA 300
QY 308 GAGTGGCGKCTGTATGAGGA 328
DB 301 GAGTATGGCGTCAATGAGGA 321

RESULT 6

US-08-441-971-20
Sequence 20, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSES: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5111
US-08-441-971-20

Query Match 62.3%; Score 211.8; DB 3; Length 340;
Best Local Similarity 78.5%; Pred. No. 3.2e-58;
Matches 252; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 8 CTCCTACTGCTAGAACAGATATCAGGCTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCCTACTGCTAGAACAGATATCAGGCTAGAGAGAAATATACCAATGTTGACCT 60
QY 68 TGAGCCGAGGCTAGACGGGCAATCAATCGCTACGAGAACGGCTTTACGTTGAGGTC 127
DB 61 TGAACCGAGGCGAGGAAGATGATCTCTCCCTACGAGAGCGGCTTTACGCGGGGGCCC 120
QY 128 CATGTTCAACAGCAGAGGGGCTCAATGCGGATATGCGCGTTCGCTAGCGGTGTATT 187
DB 121 TATGTTCAACAGCAGAGGGGGCCAGTGTGTTATCGCCGTTGCCGTTCAATGAGTCTT 180
QY 188 GCCCACTAGCTACGGTATATCAATCACTGCTACATCAAGCCAGAGCGGCTGCTGAGC 247
DB 181 GCTTACAGCTTCGGGACACATCACTGTTTACATCAAGCTAGAGCGGCTGCCGAGC 240
QY 248 TCGGGCCCTTCAAGACCCATCATTCCTTGTCTGCGGAGATGATTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTCCGGAGACCGGACTTTCTTGTCTGCGGAGATGATCTGTTGTGTGGCTGA 300
QY 308 GAGTGGCGKCTGTATGAGGA 328
DB 301 GAGTATGGCGTCAATGAGGA 321

RESULT 7

US-08-221-653-20
Sequence 20, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:


```

ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5111
US-08-221-653-20

Query Match      62.3%; Score 211.8; DB 3; Length 340;
Best Local Similarity 78.5%; Pred. No. 3.2e-58;
Matches 252; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 8 CTCTACTGTCACTGAACAGATATATGAGGAGTGAAGAAATATACCAATGTTGTGACT 67
Db 1 CTCTACTGTCACTGAACAGATATATGAGGAGTGAAGAAATATACCAATGTTGTGACT 60
QY 68 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGGTC 127
Db 61 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGGTC 120
QY 128 CATGTTCAACGCAAGGAGGCTCAATGCGGATATGCGGATGCGCGTGGCTAGCGGTATT 187
Db 121 TATGTTCAACGCAAGGAGGCTCAATGCGGATATGCGGATGCGCGTGGCTAGCGGTATT 180
QY 188 GCCCACTAGCTAGCGGTAATCAATCACTGCTACATCAAGGCGAGGCGGCTGCTGAGC 247
Db 181 GCTTACAGGCTTCCGCAACAATCACTGTTTACATCAAGGCTGAGGCGGCTTGAAGGC 240
QY 248 TGCAGGCTTCAAGACCCATCATTCCTTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
Db 241 CGCAGGCTTCCGGAACCCGGAATTTCTTGTCTGCGGAGATGATGTCGTGAGTGGCTGA 300
QY 308 GAGTTGCGKCGTGTATGAGA 328
Db 301 GAGTGATGCGCTGACGAGGA 321

```

```

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdia
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSER: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5111
US-08-442-144A-20

Query Match      62.3%; Score 211.8; DB 3; Length 340;
Best Local Similarity 78.5%; Pred. No. 3.2e-58;
Matches 252; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 8 CTCTACTGTCACTGAACAGATATATGAGGAGTGAAGAAATATACCAATGTTGTGACT 67
Db 1 CTCTACTGTCACTGAACAGATATATGAGGAGTGAAGAAATATACCAATGTTGTGACT 60
QY 68 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGGTC 127
Db 61 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGGTC 120
QY 128 CATGTTCAACGCAAGGAGGCTCAATGCGGATATGCGGATGCGCGTGGCTAGCGGTATT 187
Db 121 TATGTTCAACGCAAGGAGGCTCAATGCGGATATGCGGATGCGCGTGGCTAGCGGTATT 180
QY 188 GCCCACTAGCTAGCGGTAATCAATCACTGCTACATCAAGGCGAGGCGGCTGCTGAGC 247
Db 181 GCTTACAGGCTTCCGCAACAATCACTGTTTACATCAAGGCTGAGGCGGCTTGAAGGC 240
QY 248 TGCAGGCTTCAAGACCCATCATTCCTTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
Db 241 CGCAGGCTTCCGGAACCCGGAATTTCTTGTCTGCGGAGATGATGTCGTGAGTGGCTGA 300
QY 308 GAGTTGCGKCGTGTATGAGA 328
Db 301 GAGTGATGCGCTGACGAGGA 321

```


ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns514
US-08-441-971-21

Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1.1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 8 CTCCTACTGCTACTGAAACGAGATATCGAGTAGAAGAAATATACCAATGTTGACT 67
DB 1 CTCGACTGCTACTGAAACGAGATATCGAGTAGAAGAAATATACCAATGTTGACT 60
QY 68 TGAGCCGAGGCTGACGCGGCAATCGCTCACGGAACGCGCTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCTGACGCGGCAATCGCTCACGGAACGCGCTTACGTTGAGAGTCC 120
QY 128 CATGTTCAACAGCAAGGCGCTCAATGCGATATGCGGTTGCGTGTAGCGGTATTT 187
DB 121 TATGTTCAATAGCAAGGCGCGCCAGTGTGTTATGCGCGTTGCGTGTAGCGGTCT 180
QY 188 GCCCACTAGCTAGCGTAAATACATCACTGCTACATCAAGGCGGAGCGGCTGCTGAGC 247
DB 181 GCTTACGAGCTTGGGCAACACATCACTGTTATCATCAAGGCTAGAGCGGCTGCGAAGCC 240
QY 248 TGGCGGCTTCAAGACCATCATCTTCTGTCGCGAGATGATTTGGTGATGAGTCTGA 307
DB 241 CGCAGGCTTCCGAGACCCCGACTTCTGCTGCGAGATGATGTTGGTGAGTCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTGATGCGCTGACGAGAGA 321

RESULT 12
US-08-221-653-21
; Sequence 21, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns514
US-08-221-653-21

Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1.1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 8 CTCCTACTGCTACTGAAACGAGATATCGAGTAGAAGAAATATACCAATGTTGACT 67
DB 1 CTCGACTGCTACTGAAACGAGATATCGAGTAGAAGAAATATACCAATGTTGACT 60
QY 68 TGAGCCGAGGCTGACGCGGCAATCGCTCACGGAACGCGCTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCTGACGCGGCAATCGCTCACGGAACGCGCTTACGTTGAGAGTCC 120
QY 128 CATGTTCAACAGCAAGGCGCTCAATGCGATATGCGGTTGCGTGTAGCGGTATTT 187
DB 121 TATGTTCAATAGCAAGGCGCGCCAGTGTGTTATGCGCGTTGCGTGTAGCGGTCT 180
QY 188 GCCCACTAGCTAGCGTAAATACATCACTGCTACATCAAGGCGGAGCGGCTGCTGAGC 247
DB 181 GCTTACGAGCTTGGGCAACACATCACTGTTATCATCAAGGCTAGAGCGGCTGCGAAGCC 240
QY 248 TGGCGGCTTCAAGACCATCATCTTCTGTCGCGAGATGATTTGGTGATGAGTCTGA 307
DB 241 CGCAGGCTTCCGAGACCCCGACTTCTGCTGCGAGATGATGTTGGTGAGTCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTGATGCGCTGACGAGAGA 321

RESULT 13
US-08-442-144A-21
; Sequence 21, Application US/0842144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yanko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns514
; US-08-442-144A-21

Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1,1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 8 CTCGACTGCTACTGAAACAGGATATCGAGGTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCGACTGCTACTGAAACAGGATATCGAGGTAGAGAGAAATATACCAATGTTGACCT 60
QY 68 TGAGCCGAGGCTAGACGCGCAATCAATCGCTCAGGAACGGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGCAGGAAGATGATCTCTCCCTCAGAGAGCGCTTTACTGCGGGGGCCC 120
QY 128 CATGTTCAACAGAGGGGCTCAATATCGCGATATCGCGTTGCGGTAGCGGTATAT 187
DB 121 TATGTTCAATAGCAAGGGGCGCCAGTGTGTTATGCGCGTTGCGGTAGCGGTATAT 180
QY 188 GCCCAGTACCTACGTTAATCAATCACTGCTACATCAAGGCGCAGAGCGGCTGCTGAGC 247
DB 181 GCTACACAGCTTCGCGACACAAATCACTTGTATCATCAAGGCTGAGCGGCTGCGAAGGC 240

RESULT 14
US-08-441-970-21
; Sequence 21, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 Inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 MAY 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janluk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns514
; US-08-441-970-21

Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1,1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 248 TCGCGGCTTCAAGACCCATCATTCCTGTCTGCGGAGATGATTGGTGTAGTCTGA 307
DB 241 CGCAGGGCTCCGGACCCCGGACCTTTCGTCTGCGGAGATGATCTGTGTGCTGA 300
QY 308 GAGTTGGCGKCTTGATGAGA 328
DB 301 GAGTGATGGCGCTGACGAGGA 321

QY 8 CTCGACTGCTACTGAAACAGGATATCGAGGTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCGACTGCTACTGAAACAGGATATCGAGGTAGAGAGAAATATACCAATGTTGACCT 60
QY 68 TGAGCCGAGGCTAGACGCGCAATCAATCGCTCAGGAACGGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGCAGGAAGATGATCTCTCCCTCAGAGAGCGCTTTACTGCGGGGGCCC 120
QY 128 CATGTTCAACAGAGGGGCTCAATATCGCGATATCGCGTTGCGGTAGCGGTATAT 187
DB 121 TATGTTCAATAGCAAGGGGCGCCAGTGTGTTATGCGCGTTGCGGTAGCGGTATCT 180

QY 188 GCCCACTAGTACGCTAATACATCATCTGTACATCAAGCCAGAGCGCTGTGAGC 247
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DB 181 GCTTACGAGCTTCGCAACACATCATCTGTATCATCAAGGCTAGAGCGCTGCAAGGC 240
|||
QY 248 TCGGGGCTTCAAGACCATCTTCCTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
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DB 241 CGCAGGCGCTCCGGAACCCGACTTCTGCTGCGAGATGATCTGTGTGTGGCTGA 300
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QY 308 GAGTTCGCGKCGTTGATGAGA 328
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DB 301 GAGTATGCGCTGACGAGA 321
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RESULT 15

US-09-878-281A-217
; Sequence 217, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-217

Query Match 59.9%; Score 203.8; DB 3; Length 340;
Best Local Similarity 76.9%; Pred.No. 1.2e-55;
Matches 247; Conservative 1; Mismatches 73; Indels 0; Gap 0;

QY 8 CTCTACTGTCACTGAACAGATATCAGGCTAGAGAGAATAATATCAATGTTGTGACCT 67
|||
DB 1 CTCGACTGTCACTGAACAGATATCAGGCTAGAGAGAATAATATCAATGTTGTGACCT 60
|||
QY 68 TGAGCCGAGGCTAGACGCGGCATCAAAATCGCTACGGAACGCGTTTACGTTGAGGTCC 127
|||
DB 61 TGAACCGAGGCGCAGAAAGTATCTCTCTCCCTCACGAGCGGCTTTACTGCGAGGCC 120
|||
QY 128 CATGTTCAACGACGAGGGCTCAATGCGGATATGCGCGTGGCTGCTAGCGGTATTT 187
|||
DB 121 TATGTTTAAACGCAAGGGGCGCCAGTGTGTTATGCGCGTGGCTGCGAGGTCT 180
|||
QY 188 GCCCACTAGCTACGCTAATATCAATCATCTGTACATCAAGGCCAGAGCGGCTGCAAGC 247
|||
DB 181 GCTTACGAGCTTTCGCAACACATCATCTGTATCATCAAGGCTAGAGCGCTGCAAGGC 240
|||
QY 248 TCGGGGCTTCAAGACCATCTTCCTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
|||
DB 241 CGCAGGCGCTCCGGAACCCGACTTCTGCTGCGAGATGATCTGTGTGTGGCTGA 300
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QY 308 GAGTTCGCGKCGTTGATGAGA 328
|||
DB 301 GAGTATGCGCTGACGAGA 321
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Search completed: January 11, 2006, 10:56:50
Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds

(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-83

Perfect score: 340
Sequence: 1 ctccaccgttaaccgaaag.....ataaccgacccctcnagcc 340Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
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- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfilest1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	339	99.7	340	3	US-08-836-075A-83
2	291	85.6	340	3	US-09-878-281A-106
3	291	85.6	340	3	US-09-878-281A-112
4	281.4	82.8	340	3	US-09-878-281A-108
5	281.4	82.8	340	3	US-09-878-281A-110
6	269.2	79.2	340	3	US-09-878-281A-201
7	262.8	77.3	340	3	US-08-836-075A-87
8	262.8	77.3	340	3	US-09-878-281A-116
9	255	75.0	340	3	US-08-836-075A-85
10	249.4	73.4	340	3	US-09-878-281A-207
11	246.8	72.6	340	3	US-09-878-281A-403
12	246.2	72.4	340	3	US-09-878-281A-114
13	246.2	72.4	340	3	US-09-878-281A-205
14	245.6	72.2	340	3	US-09-878-281A-209
15	244.4	71.9	340	3	US-09-878-281A-211
16	198.6	58.4	222	3	US-08-537-802-13
17	187.4	55.1	222	3	US-08-441-971-20
18	175.8	51.7	340	3	US-08-441-971-20
19	175.8	51.7	340	3	US-08-221-653-20
20	175.8	51.7	340	3	US-08-442-144A-20
21	175.8	51.7	340	3	US-08-441-970-20
22	174.2	51.2	340	3	US-09-878-281A-159
23	174.2	51.2	340	3	US-08-836-075A-99
24	173.2	50.9	340	3	US-08-441-971-17

25	173.2	50.9	340	3	US-08-221-653-17	Sequence 17, Appl
26	173.2	50.9	340	3	US-08-442-144A-17	Sequence 17, Appl
27	173.2	50.9	340	3	US-08-441-970-17	Sequence 17, Appl
28	172.6	50.8	340	3	US-08-441-971-5	Sequence 5, Appl
29	172.6	50.8	340	3	US-08-441-971-22	Sequence 22, Appl
30	172.6	50.8	340	3	US-08-221-653-5	Sequence 5, Appl
31	172.6	50.8	340	3	US-08-221-653-22	Sequence 22, Appl
32	172.6	50.8	340	3	US-08-442-144A-5	Sequence 5, Appl
33	172.6	50.8	340	3	US-08-442-144A-22	Sequence 22, Appl
34	172.6	50.8	340	3	US-08-441-970-5	Sequence 5, Appl
35	172.6	50.8	340	3	US-08-441-970-22	Sequence 22, Appl
36	171	50.3	340	3	US-08-441-971-21	Sequence 21, Appl
37	171	50.3	340	3	US-08-221-653-21	Sequence 21, Appl
38	171	50.3	340	3	US-08-442-144A-21	Sequence 21, Appl
39	171	50.3	340	3	US-08-441-970-21	Sequence 21, Appl
40	170.6	50.2	335	3	US-08-836-075A-101	Sequence 101, Appl
41	170.2	50.1	340	3	US-08-836-075A-55	Sequence 55, Appl
42	169.4	49.8	340	3	US-08-441-971-3	Sequence 3, Appl
43	169.4	49.8	340	3	US-08-221-653-3	Sequence 3, Appl
44	169.4	49.8	340	3	US-08-442-144A-3	Sequence 3, Appl
45	169.4	49.8	340	3	US-08-441-970-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-83
; Sequence 83, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 83:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-83

Query Match 99.7%; Score 339; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 8.6e-92;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 CTCACCTGTAACCGAAAGAGATCATGAGCCCGAGAGAGAGTCTATCAGTGTGTGACCT 60
DB 1 CTCACCTGTAACCGAAAGAGATCATGAGCCCGAGAGAGAGTCTATCAGTGTGTGACCT 60
OY 61 GGAGCCCGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTCTACGTGGCGGCC 120
DB 61 GGAGCCCGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTCTACGTGGCGGCC 120
OY 121 CATGCAACAACAGAGAGAGAGTCTGTGGGTATCGGAGATACCCCGGAGAGGGGGCTCA 180
DB 121 CATGCAACAACAGAGAGAGAGTCTGTGGGTATCGGAGATACCCCGGAGAGGGGGCTCA 180
OY 181 CACGACCAAGCTTCGAGAAACACATGCTACCTCAAGGCTCAGCTGCTATTAGAGC 240
DB 181 CACGACCAAGCTTCGAGAAACACATGCTACCTCAAGGCTCAGCTGCTATTAGAGC 240
OY 241 GGACAGGGCTGAGAGACTGACACCATGCTGTGGGTGACGACTTGCTGTCATCGCTGA 300
DB 241 GGACAGGGCTGAGAGACTGACACCATGCTGTGGGTGACGACTTGCTGTCATCGCTGA 300
OY 301 GAGCGATGGCGTGAAGAGAGATTAACGAGCCCTCCAGGCC 340
DB 301 GAGCGATGGCGTGAAGAGAGATTAACGAGCCCTCCAGGCC 340
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RESULT 2

US-09-878-281A-106
Sequence 106, Application US/09878281A

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Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 106
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-106
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Query Match 85.6%; Score 291; DB 3; Length 340;
Best Local Similarity 90.9%; Pred. No. 2e-77;
Matches 309; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

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OY 1 CTCACCTGTAACCGAAAGAGATCATGAGCCCGAGAGAGAGTCTATCAGTGTGTGACCT 60
DB 1 CTCACCTGTAACCGAAAGAGATCATGAGCCCGAGAGAGAGTCTATCAGTGTGTGACCT 60
OY 61 GGAGCCCGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTCTACGTGGCGGCC 120
DB 61 GGAGCCCGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTCTACGTGGCGGCC 120
OY 121 CATGCAACAACAGAGAGAGAGTCTGTGGGTATCGGAGATACCCCGGAGAGGGGGCTCA 180
DB 121 CATGCAACAACAGAGAGAGAGTCTGTGGGTATCGGAGATACCCCGGAGAGGGGGCTCA 180
OY 181 CACGACCAAGCTTCGAGAAACACATGCTACCTCAAGGCTCAGCTGCTATTAGAGC 240
DB 181 CACGACCAAGCTTCGAGAAACACATGCTACCTCAAGGCTCAGCTGCTATTAGAGC 240
OY 241 GGACAGGGCTGAGAGACTGACACCATGCTGTGGGTGACGACTTGCTGTCATCGCTGA 300
DB 241 GGACAGGGCTGAGAGACTGACACCATGCTGTGGGTGACGACTTGCTGTCATCGCTGA 300
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DB 241 GGCGGGGCTGAGAGACTGACACCATGCTGTGGGTGAGATGACCTGTGTCATCGCTGA 300
OY 301 GAGCGATGGCGTGAAGAGAGATTAACGAGCCCTCCAGGCC 340
DB 301 GAGCGATGGCGTGAAGAGAGATTAACGAGCCCTCCAGGCC 340
```

RESULT 3

US-09-878-281A-112
Sequence 112, Application US/09878281A

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Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 112
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-112
```

Query Match 85.6%; Score 291; DB 3; Length 340;
Best Local Similarity 90.9%; Pred. No. 2e-77;
Matches 309; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

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OY 1 CTCACCTGTAACCGAAAGAGATCATGAGCCCGAGAGAGAGTCTATCAGTGTGTGACCT 60
DB 1 CTCACCTGTAACCGAAAGAGATCATGAGCCCGAGAGAGAGTCTATCAGTGTGTGACCT 60
OY 61 GGAGCCCGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTCTACGTGGCGGCC 120
DB 61 GGAGCCCGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTCTACGTGGCGGCC 120
OY 121 CATGCAACAACAGAGAGAGAGTCTGTGGGTATCGGAGATACCCCGGAGAGGGGGCTCA 180
DB 121 CATGCAACAACAGAGAGAGAGTCTGTGGGTATCGGAGATACCCCGGAGAGGGGGCTCA 180
OY 181 CACGACCAAGCTTCGAGAAACACATGCTACCTCAAGGCTCAGCTGCTATTAGAGC 240
DB 181 CACGACCAAGCTTCGAGAAACACATGCTACCTCAAGGCTCAGCTGCTATTAGAGC 240
OY 241 GGACAGGGCTGAGAGACTGACACCATGCTGTGGGTGACGACTTGCTGTCATCGCTGA 300
DB 241 GGACAGGGCTGAGAGACTGACACCATGCTGTGGGTGACGACTTGCTGTCATCGCTGA 300
OY 301 GAGCGATGGCGTGAAGAGAGATTAACGAGCCCTCCAGGCC 340
DB 301 GAGCGATGGCGTGAAGAGAGATTAACGAGCCCTCCAGGCC 340
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RESULT 4

US-09-878-281A-108
Sequence 108, Application US/09878281A

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Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 108
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-108
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Query Match 82.8%; Score 281.4; DB 3; Length 340;
Best Local Similarity 89.1%; Pred. No. 1.5e-74;
Matches 303; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

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OY 1 CTCGACTGTAAACCGAAAGACATCAGGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
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DB 1 CTCGACTGTAAACCGAAAGACATCAGGGGTGAGAGAGAGATATCATGTGTGTGACCT 60
OY 61 GGAGCCCGAAGCTCGCAAGTTATACCGCCCTCACAAAGACTCTACGTGGGCGGCC 120
    |||||
DB 61 GGAGCCCGAAGCCCGCAAGATTAACCGCCCTTAACAAGACTCTACGTGGGCGGCC 120
OY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGGTATGAGATGCGCGAAGCGGCTCTA 180
    |||||
DB 121 CATGATATAACAGCAAGGAGACCTTTGTGGGTATGAGATGCGCGAAGCGGCTCTA 180
OY 181 CACGACCAAGCTTCGAAACACACTGACGTCTACTCAAGCCTCAGCTGTATTAGAC 240
    |||||
DB 181 CACGACCAAGCTTCGGAACACACTGACGTCTACTCAAGCCTCAGCGGCTATCAGAC 240
OY 241 GCGAGGGCTGAGAGACTGACCATCTGTGTTGCGGTGACGACTTGTCTATGCTGA 300
    |||||
DB 241 GCGCGGGCTGAGAGACTGACCATCTGTGTTGCTGTATGACCTGTCTATGCTGA 300
OY 301 GAGCGATGGCGGTAGAGAGATTAACCGAGCCCTCCNAGCC 340
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DB 301 AAGCGATGGCGGTAGAGAGATTAACCGAGCCCTCCGAGCC 340
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RESULT 5

US-09-878-281A-110
Sequence 110, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 110
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-110

Query Match 82.8%; Score 281.4; DB 3; Length 340;
Best Local Similarity 89.1%; Pred. No. 1.5e-74;
Matches 303; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

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OY 1 CTCGACTGTAAACCGAAAGACATCAGGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
    |||||
DB 1 CTCGACTGTAAACCGAAAGACATCAGGGGTGAGAGAGAGATATCATGTGTGTGACCT 60
OY 61 GGAGCCCGAAGCTCGCAAGTTATACCGCCCTCACAAAGACTCTACGTGGGCGGCC 120
    |||||
DB 61 GGAGCCCGAAGCCCGCAAGTATTAACCGCCCTTAACAAGACTCTATGTGGGCGGCC 120
OY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGGTATGAGATGCGCGAAGCGGCTCTA 180
    |||||
DB 121 CATGATATAACAGCAAGGAGACCTTTGTGGGTATGAGATGCGCGAAGCGGCTCTA 180
OY 181 CACGACCAAGCTTCGAAACACACTGACGTCTACTCAAGCCTCAGCTGTATTAGAC 240
    |||||
DB 181 CACGACCAAGCTTCGGAACACACTGACGTCTACTCAAGCCTCAGCGGCTATCAGAC 240
OY 241 GCGAGGGCTGAGAGACTGACCATCTGTGTTGCGGTGACGACTTGTCTATGCTGA 300
    |||||
DB 241 GCGCGGGCTGAGAGACTGACCATCTGTGTTGCTGTATGACCTGTCTATGCTGA 300
```

OY 301 GAGCGATGGCGGTAGAGAGATTAACCGAGCCCTCCNAGCC 340
|||
DB 301 GAGCGATGGCGGTAGAGAGATTAACCGAGCCCTCCGAGTC 340

RESULT 6

US-09-878-281A-201
Sequence 201, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 201
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-201

Query Match 79.2%; Score 269.2; DB 3; Length 340;
Best Local Similarity 87.0%; Pred. No. 6.7e-71;
Matches 295; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

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OY 1 CTCGACTGTAAACCGAAAGACATCAGGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
    |||||
DB 1 CTCGACTGTAGCTGAGAGACATCAGGGGTGAGAGAGAGATATCATGTGTGTGATCT 60
OY 61 GGAGCCCGAAGCTCGCAAGTTATACCGCCCTCACAAAGACTCTACGTGGGCGGCC 120
    |||||
DB 61 GGAGCCCGAAGCCCGCAAGTATTAACCGCCCTTAACAAGACTCTACGTGGGCGGCC 120
OY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGGTATGAGATGCGCGCAAGCGGCTCTA 180
    |||||
DB 121 TATGTAAATAGCAAGGAGACCTTTGCGGTATGAGATGCGCGCAAGCGGCTCTA 180
OY 181 CACGACCAAGCTTCGAAACACACTGACGTCTACTCAAGCCTCAGCTGTATTAGAC 240
    |||||
DB 181 TACACAGAGCTTCGGAACACACTGACGTCTACTCAAGCCTCAGACCATCAGGGC 240
OY 241 GCGAGGGCTGAGAGACTGACCATCTGTGTTGCGGTGACGACTTGTCTATGCTGA 300
    |||||
DB 241 TGCAGGGCTGAGAGACTGACCATCTGTGTTGCGGTGACGACTTGTGTGCTGA 300
OY 301 GAGCGATGGCGGTAGAGAGATTAACCGAGCCCTCCNAGC 339
    |||||
DB 301 AAGCGTGGCGGTGAGAGAGATTAACCGAGCCCTCCGAGC 339
```

RESULT 7

US-08-836-075A-87
Sequence 87, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: STUVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

```
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 87:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-87
```

```
Query Match      77.3%; Score 262.8; DB 3; Length 340;
Best Local Similarity 85.8%; Pred. No. 5.5e-69;
Matches 291; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
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QY      1 CTCGACTGTAAACGAAAGACATGAGCCGAGAGAAAGGTCTATCACTGTTGTGACT 60
DB      1 CTCGACCGTTAACGAAAGGACATGAGGCTCGAGAGAGAGGTCTATCACTGTTGTGACT 60
QY      61 GGAGCCCGAAGCTCCGAAAGTTATACCGCCCTCAGAAAGACTCTATGTTGGGGGCC 120
DB      61 GGAGCCGAGGCGCCGAAAGCAATATCCGCCCTCAGAGAGAACTCTATGTTGGGGGCC 120
QY      121 CATGCAACAACAGAGAGAGACCTTTGTTGGTATCGAGATCCCGCAAGCGGCGTCTA 180
DB      121 CATGTTAAACAGCAAGAGAGACTTATGTTGGCTAACCGAGAGTCCCGCAAGCGGCGTCTA 180
QY      181 CACGACCAAGCTTCGAAACACACTGAGCTGTAACCTCAAAAGCTTCACTGTTATTAGAGC 240
DB      181 CACCAACAGCTTCGAAACACACTGAGCTGTAACCTCAAAAGCTTCACTGTTATTAGAGC 240
QY      241 GGCAGGGCTGAGAGACTGACATGCTGTTGGCGTGAAGAAGCTTGTGCTATGCTGGA 300
DB      241 GGCAGGGCTGAGAGACTGACATGCTGTTGGCGTGAAGAAGCTTGTGCTATGCTGGA 300
QY      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
QY      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
```

```
RESULT 8
US-09-878-281A-116
Sequence 116, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 116
```

```
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-116
```

```
Query Match      77.3%; Score 262.8; DB 3; Length 340;
Best Local Similarity 85.8%; Pred. No. 5.5e-69;
Matches 291; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
```

```
QY      1 CTCGACTGTAAACGAAAGACATGAGCCCGAGAGAAAGGTCTATCACTGTTGTGACT 60
DB      1 CTCGACCGTTAACGAAAGGACATGAGGCTCGAGAGAGAGGTCTATCACTGTTGTGACT 60
QY      61 GGAGCCCGAAGCTCCGAAAGTTATACCGCCCTCAGAAAGACTCTATGTTGGGGGCC 120
DB      61 GGAGCCGAGGCGCCGAAAGTTATACCGCCCTCAGAGAGAACTCTATGTTGGGGGCC 120
QY      121 CATGCAACAACAGAGAGAGACCTTTGTTGGTATCGAGATCCCGCAAGCGGCGTCTA 180
DB      121 CATGATTAACAGCAAGAGAGACCTTTGGGGTATCGTAGATGCCGCGAGCGGCGTATA 180
QY      181 CACGACCAAGCTTCGAAACACACTGAGCTGTAACCTCAAAAGCTTCACTGTTATTAGAGC 240
DB      181 CACCAACAGCTTCGAAACACACTGAGCTGTAACCTCAAAAGCTTCACTGTTATTAGAGC 240
QY      241 GGCAGGGCTGAGAGACTGACATGCTGTTGGCGTGAAGAAGCTTGTGCTATGCTGGA 300
DB      241 TCGCGGCTTAAGAGATTTGACCACTGCTGTTGGCGTGAAGAAGCTTGTGCTATGCTGGA 300
QY      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
```

```
RESULT 9
US-08-836-075A-85
Sequence 85, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
```

; INFORMATION FOR SEQ ID NO: 85:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; US-08-836-075A-85

Query Match 75.0%; Score 255; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1.2e-66;
Matches 285; Conservative 2; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCACCTGTAAACGAAAGGATCATGAGCCGAGAAAGGCTTATCATGTTGTGACCT 60
DB 1 CTCACGCGTGAATGAAAGGATCATGAGGCTGAGAAAGATCTATCATATGTTGTGACCT 60
QY 61 GGAGCCCGAAGCTCGCAAGGTTATTACGCGCCCTCACAGAAAGACTCTAGTGGGCGGCC 120
DB 61 GGAGCCCGAAGCTCGCAAGGTTATTACGCGCCCTCACAGAGACTCTATCTTGGGCGGCC 120
QY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGTATCGAGATGCCGCGAAGCGCGCTCTA 180
DB 121 CATGTAATACAGCAAGGAGACTCTGTGGGGTATCGAGATGCCGCGAAGCGAGTCTA 180
QY 181 CACGACCAAGCTTGGGAAACACACTGACTCTACTCTAAAGCTTACTTATTAAGC 240
DB 181 CACCAAGATTTGGGAAACACAGTACTCTTAAAGCCACCGAAGCTTACCAGGAGC 240
QY 241 GGCAGGGCTGAGAGACTGACCATGCTGTGGGTGAGCACTTGTCGTATGCTGA 300
DB 241 TGCAAGGCTTAAAGACTGACCATGCTGTGGGTGAGCACTTGTCGTATGCTGA 300
QY 301 GAGCGATGCGGTAGAGAGATTAACCGAGCCCTCCNAGC 340
DB 301 GAGCGAGGCGGTAGAGAGATTTCCCAACCCCTCCGAGC 340

RESULT 10

US-09-878-281A-207
; Sequence 207, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 207
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; US-09-878-281A-207

Query Match 73.4%; Score 249.4; DB 3; Length 340;
Best Local Similarity 83.2%; Pred. No. 5.6e-65;
Matches 283; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 1 CTCACCTGTAAACGAAAGGATCATGAGCCGAGAAAGGCTTATCATGTTGTGACCT 60
DB 1 CTCACGCGTGAATGAAAGGATCATGAGGCTGAGAAAGATCTATCATATGTTGTGACCT 60
QY 61 GGAGCCCGAAGCTCGCAAGGTTATTACGCGCCCTCACAGAAAGACTCTAGTGGGCGGCC 120
DB 61 GGAGCCCGAAGCTCGCAAGGTTATTACGCGCCCTCACAGAAAGACTCTATCAAGGCGGCC 120
QY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGTATCGAGATGCCGCGAAGCGCGCTCTA 180
DB 121 CATGTAATACAGCAAGGAGACTCTGTGGGGTATCGAGATGCCGCGAAGCGAGTCTA 180

DB 121 CATGTATACAGCAAGGAGGAGCTTATGCGGGCTTGGAGGTCGCCGCAAGCGGGTATA 180
QY 181 CACGACCAAGCTTGGGAAACACACTGAGTGTACTCTAAAGCCTCAGTGTCTATTAGAC 240
DB 181 CACCAAGATTTGGGAAACACAGTACTCTTAAAGCCACAGACCAAGGAGC 240
QY 241 GGCAGGGCTGAGAGACTGACCATGCTGTGGGTGAGCACTTGTCGTATGCTGA 300
DB 241 TGCAAGGCTGAAAGATTTGACTATGCTGTATGCGGTGAGACACTTATGCTATGCCGA 300
QY 301 GAGCGATGCGGTAGAGAGATTAACCGAGCCCTCCNAGC 340
DB 301 AAGCGATGCTGTGAGAGAGACCGCCGAGCCCTCCGAGC 340

RESULT 11

US-09-878-281A-203
; Sequence 203, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 203
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; US-09-878-281A-203

Query Match 72.6%; Score 246.8; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 3.4e-64;
Matches 281; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 1 CTCACCTGTAAACGAAAGGATCATGAGCCGAGAAAGGCTTATCATGTTGTGACCT 60
DB 1 CTCACAGTGAATGAAAGGATCATGAGGCTGAGAAAGGCTTATCATATGTTGTGACCT 60
QY 61 GGAGCCCGAAGCTCGCAAGGTTATTACGCGCCCTCACAGAAAGACTCTAGTGGGCGGCC 120
DB 61 GAGGCTGAAACCCGCAAGTATATCTGCCCTCACTGAAAGACTTATGTCGCGCTCC 120
QY 121 CATGCAACAACAGCAAGGAGGAGCTTTGTGGTATCGAGATGCCGCGAAGCGCGCTCTA 180
DB 121 CATGCAACAACAGCAAGGAGGAGCTTTGTGGTATCGAGATGCCGCGAAGCGCGCTCTA 180
QY 181 CACGACCAAGCTTGGGAAACACACTGAGTGTACTCTAAAGCCTCAGTGTCTATTAGAC 240
DB 181 CACCAAGATTTGGGAAACACAGTACTCTTAAAGCCACAGCGGCAACAAAGC 240
QY 241 GGCAGGGCTGAGAGACTGACCATGCTGTGGGTGAGCACTTGTCGTATGCTGA 300
DB 241 CGTGGCTTAAAGACTGACCATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
QY 301 GAGCGATGCGGTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB 301 AAGCGATGCTGTGAGAGAGACCGCCGAGCCCTCCGAGC 339

RESULT 12

US-09-878-281A-114
; Sequence 114, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 114
 ; LENGTH: 340
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-114

Query Match 72.4%; Score 246.2; DB 3; Length 340;
 Best Local Similarity 82.6%; Pred. No. 5.1e-64;
 Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACCTGTAACCGAAGGACATCAGCCCGAGGAAGGAGTCTATCATGTTGTGACCT 60
 DB 1 CTCACCGGTGACCGAAGGATATCAGACCGAGGAAGATCTACCACTGCTGACACT 60
 QY 61 GGAGCCCGAAGCTCGCAAGGTTATTAACGCGCTTACAGAAAGACTTACGTGGCGGCC 120
 DB 61 GGAGCCCGAAGCCCGCAAGGTATATCCGCTTAACGAAAGACTTACGTGGCGGCTC 120
 QY 121 CATGCAACAACAGGAAGGAGACCTTTGTGGGTATCGGAATGCCGCGCAAGCGGCTCTA 180
 DB 121 CATGTAACAACCAAGGGGACCTATGCGGCAACGAGGTGCGCGCAAGCGGCTCTA 180
 QY 181 CACGACCAAGCTTCGGAACACACATGCTACCTCAAGGCTGAGCTGCTATTAGAGC 240
 DB 181 CACCAACCAAGCTTCGGAACACATGCTATCTCAAGGCTGAGCTGCTATTAGAGC 240
 QY 241 GCGAGGCTGAGAGACTGACCAACGCTGTTGCGGTGACGACTTGTGCTGCTGCA 300
 DB 241 GCGAGGCTGAGAAAGTTGACGACGCTGTTGTGGAGACGACTTGTGCTGCTGCA 300
 QY 301 GAGCGATGGCTGAGAGGAGATACCGAGCCCTCCNAGCC 340
 DB 301 GAGCGCGGCTGAGAGGAGATCAAGAGCCCTCCGAGCC 340

RESULT 13

US-09-878-281A-205
 ; Sequence 205, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 205
 ; LENGTH: 340
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-205

Query Match 72.4%; Score 246.2; DB 3; Length 340;
 Best Local Similarity 82.6%; Pred. No. 5.1e-64;
 Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACCTGTAACCGAAGGACATCAGCCCGAGGAAGGAGTCTATCATGTTGTGACCT 60
 DB 1 CTCACCGGTGACCGAAGGATATCAGACCGAGGAAGATCTACCACTGCTGACACT 60
 QY 61 GGAGCCCGAAGCTCGCAAGGTTATTAACGCGCTTACAGAAAGACTTACGTGGCGGCC 120
 DB 61 GGAGCCCGAAGCCCGCAAGGTATATCCGCTTAACGAAAGACTTACGTGGCGGCTC 120
 QY 121 CATGCAACAACAGGAAGGAGACCTTTGTGGGTATCGGAATGCCGCGCAAGCGGCTCTA 180
 DB 121 CATGTAACAACCAAGGGGACCTATGCGGCAACGAGGTGCGCGCAAGCGGCTCTA 180

QY 181 CACGACGAGCTTCGGAACACACATGACGTGCTACCTCAAAAGCTGCTATTAGAGC 240
 DB 181 CACCAACGAGCTTCGGAACACATGTAACGTGTATCTCAAGGCGCTGCTACTAGAGC 240
 QY 241 GCGAGGCTGAGAGACTGACCATGCTGTTGGGTGAGGAGCACTTGTGCTATCGCTGA 300
 DB 241 GCGAGGCTGAGAAAGTTGACGACATGCTGTTGTGGAGAGCACTTGTGCTATCGCTGA 300
 QY 301 GAGCGATGGCTGAGAGGAGATTAACGAGCCCTCCNAGCC 340
 DB 301 GAGCGCGGCTGAGAGGAGATCAAGAGCCCTCCGAGCC 340

RESULT 14

US-09-878-281A-209
 ; Sequence 209, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 209
 ; LENGTH: 340
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (13)..(13)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (23)..(23)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (65)..(65)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (72)..(72)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (277)..(277)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (337)..(337)
 ; OTHER INFORMATION: "n" is any nucleotide
 US-09-878-281A-209

Query Match 72.2%; Score 245.6; DB 3; Length 340;
 Best Local Similarity 82.0%; Pred. No. 7.7e-64;
 Matches 278; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 1 CTCACCTGTAACCGAAGGACATCAGCCCGAGGAAGGAGTCTATCATGTTGTGACCT 60
 DB 1 CCCACCGGTGACGAGGAGGACATCAGGTCGAGGAAGGATCTATCATGTCGTATATCT 60
 QY 61 GGAGCCCGAAGCTCGCAAGGTTATTAACGCGCTTACAGAAAGACTTACGTGGCGGCC 120
 DB 61 GGAGCCCGATNCCGCAAGGTATCAAGCCCTCAAGAGACTTACGTGGCGGCC 120
 QY 121 CATGCAACAACAGGAAGGAGACCTTTGTGGGTATCGGAATGCCGCGCAAGCGGCTCTA 180
 DB 121 TATGCAACAACAGGAAGGAGACCTTGTGGGTATCGGTATGATGCGCGGAGCGGCTTGA 180
 QY 181 CACGACGAGCTTCGGAACACACATGACGTGCTACCTCAAAAGCTGCTATTAGAGC 240

DB 181 CACCAAGAGCTTGGAAACACGCTGACTTGTACTCTAAAGCCACAGCGCCACCGAGGC 240
QY 241 GGCAGAGGCTGAGAGACTGACCATGTGTTGGCGGTGACGACTTGTCGTATGCTGA 300
DB 241 CGCGGAGCTTGAAGATTGACCATGTGTCGCGNGACGACTGTGTTGTCATTGCTGA 300
QY 301 GAGCGATGGCGTGAAGAGATATACCGAGCCCTCCNAGC 339
DB 301 GAGCATTTGGCATAGACGAGACAGCAGCCCTCCGAGC 339

RESULT 15

US-09-878-281A-211
; Sequence 211, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 211
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (11)..(11)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (327)..(327)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (333)..(334)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (340)..(340)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-211

Query Match 71.9%; Score 244.4; DB 3; Length 340;
Best Local Similarity 82.0%; Pred. No. 1.8e-63;
Matches 278; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 1 CTCGACTGTAAACGAAAGACATCAGGCCCGAGAGAGGTCTATCACTGTTGACTT 60
DB 1 CTCGACTGTGNCGAGAGGACATCAGGACAGAGGAGAGGTCTATCACTGTTGCACTT 60
QY 61 GGAGCCCGAGAGCTCGAAGGTTATTACCGCCCTCAAGAAAGACTCTACGTGGGCGGCC 120
DB 61 GGAACCGAGAGCCCGAAGGTATACCGCCCTCACTGAGAGACTCTATGTGGCGGAGCC 120
QY 121 CATGCAACAACAGGAGAGACCTTTGTGTATCGAGATGCCGCGAAGCGGCGTCTA 180
DB 121 CATGTTCAACAGCAAGGAGGACCTGTGCGGACAGCGCGGTGCCGGAAGCGGCTGT 180
QY 181 CAGGACCAAGCTTCGAAACACTGACGTGTAACCTCAAAAGCTCTAGCTGTATTAGAC 240
DB 181 CACCAACCAAGCTTCGGAACACACTGACGTAACTTTAAAGCCACAGCTGCTACTAGAGC 240
QY 241 GGCAGGAGCTGAGAGACTGACCATGTGTTGGCGTGAAGACTTGTCATCGCTGA 300
DB 241 AGCCGAGCTTAAAGATTGACCAATGCTGAGTGGGAGAGACTTAAATGTTATTTCCGA 300
QY 301 GAGCGATGGCGTGAAGAGATATACCGAGCCCTCCNAGC 339

DB 301 GAGCGCCGCTGTGAGAGAGATCCCANAAACCCNNCGAGC 339
Search completed: January 11, 2006, 10:56:51
Job time : 83.331 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-85

Perfect score: 340

Sequence: 1 ctccacggctgactgaagaag.....attccacacccctccgagcc 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	339.2	99.8	340	US-08-836-075A-85	Sequence 85, App1
2	267.2	78.6	340	US-09-878-281A-207	Sequence 207, App1
3	255	75.0	340	US-08-836-075A-83	Sequence 83, App1
4	255	75.0	340	US-09-878-281A-116	Sequence 116, App1
5	252.8	74.4	340	US-08-836-075A-87	Sequence 87, App1
6	249.6	73.4	340	US-09-878-281A-108	Sequence 108, App1
7	249.6	73.4	340	US-09-878-281A-110	Sequence 110, App1
8	248.6	73.1	340	US-09-878-281A-201	Sequence 201, App1
9	246.4	72.5	340	US-09-878-281A-112	Sequence 112, App1
10	244.8	72.0	340	US-09-878-281A-114	Sequence 114, App1
11	244.8	72.0	340	US-09-878-281A-205	Sequence 205, App1
12	243.8	71.7	340	US-09-878-281A-203	Sequence 203, App1
13	243.8	71.7	340	US-09-878-281A-211	Sequence 211, App1
14	236.6	69.6	340	US-09-878-281A-209	Sequence 209, App1
15	226.6	66.6	340	US-09-878-281A-217	Sequence 217, App1
16	180.8	53.2	340	US-08-441-971-20	Sequence 20, App1
17	179.2	52.7	340	US-08-442-144A-20	Sequence 20, App1
18	179.2	52.7	340	US-08-441-970-20	Sequence 20, App1
19	179.2	52.7	340	US-08-836-075A-55	Sequence 55, App1
20	177.2	52.1	340	US-08-441-971-21	Sequence 21, App1
21	176	51.8	340	US-08-221-653-21	Sequence 21, App1
22	176	51.8	340	US-08-442-144A-21	Sequence 21, App1
23	176	51.8	340	US-08-442-144A-21	Sequence 21, App1

25	176	51.8	340	US-08-441-970-21	Sequence 21, App1
26	176	51.8	1716	US-09-674-677-6	Sequence 6, App1
27	174.8	51.4	340	US-08-441-971-7	Sequence 7, App1
28	174.8	51.4	340	US-08-221-653-7	Sequence 7, App1
29	174.8	51.4	340	US-08-442-144A-7	Sequence 7, App1
30	174.8	51.4	340	US-08-441-970-7	Sequence 7, App1
31	174.8	51.4	1788	US-08-722-806A-1	Sequence 1, App1
32	174.8	51.4	1788	US-09-337-028-1	Sequence 1, App1
33	174.8	51.4	1788	US-09-597-877-1	Sequence 1, App1
34	173.2	50.9	340	US-08-441-971-1	Sequence 1, App1
35	173.2	50.9	340	US-08-441-971-4	Sequence 4, App1
36	173.2	50.9	340	US-08-221-653-1	Sequence 1, App1
37	173.2	50.9	340	US-08-221-653-4	Sequence 4, App1
38	173.2	50.9	340	US-08-442-144A-1	Sequence 1, App1
39	173.2	50.9	340	US-08-442-144A-4	Sequence 4, App1
40	173.2	50.9	340	US-08-441-970-1	Sequence 1, App1
41	173.2	50.9	340	US-08-441-970-4	Sequence 4, App1
42	173.2	50.9	561	US-07-853-985A-1	Sequence 1, App1
43	173.2	50.9	561	US-07-681-703B-1	Sequence 1, App1
44	173.2	50.9	561	US-08-184-236-1	Sequence 1, App1
45	173.2	50.9	561	US-08-407-410B-1	Sequence 1, App1

ALIGNMENTS

RESULT 1
US-08-836-075A-85
; Sequence 85, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 85:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-85

Query Match 99.8%; Score 339.2; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 5.4e-89;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 CTCACGGGAGTGAAGAGATCATGAGGAGGAGAGATCTATCATATGTTGACCT 60
DB 1 CTCACGGGAGTGAAGAGATCATGAGGAGGAGAGATCTATCATATGTTGACCT 60
QY 61 GGARCCCGAAGCCCGCAAAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
DB 61 GGARCCCGAAGCCCGCAAAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
QY 121 CATGTATAACAGCAAAAGGGAGCTCTGCGGGTATCGAGAGTCCCGCGAGCGAGTGA 180
DB 121 CATGTATAACAGCAAAAGGGAGCTCTGCGGGTATCGAGAGTCCCGCGAGCGAGTGA 180
QY 181 CACCAAGATTCCGGGAACACAGTACCTGATCTTAAAGCCACCGAGCTACAGAGGC 240
DB 181 CACCAAGATTCCGGGAACACAGTACCTGATCTTAAAGCCACCGAGCTACAGAGGC 240
QY 241 TGCAGGCTTAAAGACTGACCATGCTGCTGCGGTGACGACTTGCTGATCGCCGA 300
DB 241 TGCAGGCTTAAAGACTGACCATGCTGCTGCGGTGACGACTTGCTGATCGCCGA 300
QY 301 GAGCGAGGCGGTAGAGAGAGATTCCCAACCCCTCCGAGCC 340
DB 301 GAGCGAGGCGGTAGAGAGAGATTCCCAACCCCTCCGAGCC 340

```

RESULT 2

US-09-878-281A-207
Sequence 207, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878, 281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 207
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-207

Query Match 78.6%; Score 267.2; DB 3; Length 340;
Best Local Similarity 86.2%; Pred. No. 4.5e-68;
Matches 293; Conservative 2; Mismatches 45; Indels 0; Gaps 0;

```

QY 1 CTCACGGTGAAGAGATCATGAGGAGGAGAGATCTATCATATGTTGACCT 60
DB 1 CTCACGGTGAAGAGATCATGAGGAGGAGAGATCTATCATATGTTGACCT 60
QY 61 GGARCCCGAAGCCCGCAAAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
DB 61 GGARCCCGAAGCCCGCAAAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
QY 121 CATGTATAACAGCAAAAGGGAGCTCTGCGGGTATCGAGAGTCCCGCGAGCGAGTGA 180
DB 121 CATGTATAACAGCAAAAGGGAGCTCTGCGGGTATCGAGAGTCCCGCGAGCGAGTGA 180
QY 181 CACCAAGATTCCGGGAACACAGTACCTGATCTTAAAGCCACCGAGCTACAGAGGC 240
DB 181 CACCAAGATTCCGGGAACACAGTACCTGATCTTAAAGCCACCGAGCTACAGAGGC 240
QY 241 TGCAGGCTTAAAGACTGACCATGCTGCTGCGGTGACGACTTGCTGATCGCCGA 300
DB 241 TGCAGGCTTAAAGACTGACCATGCTGCTGCGGTGACGACTTGCTGATCGCCGA 300

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DB 241 TGCAGGCGTGAAGATGCACTATGCTGTATGCGGTGACAGCACTTATGTCGCA 300
QY 301 GAGCGAGGCGGTAGAGAGATTCACCAACCCCTCCGAGCC 340
DB 301 AAGCGTGGCGGTGAGAGAGAGCGCCCGAGCCCTCCGAGCC 340

```

RESULT 3

US-08-836-075A-83
Sequence 83, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DUREKE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-83

Query Match 75.0%; Score 255; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1.6e-64;
Matches 285; Conservative 2; Mismatches 53; Indels 0; Gaps 0;

```

QY 1 CTCACGGTGAAGAGATCATGAGGAGGAGAGATCTATCATATGTTGACCT 60
DB 1 CTCACGGTGAAGAGATCATGAGGAGGAGAGATCTATCATATGTTGACCT 60
QY 61 GGARCCCGAAGCCCGCAAAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
DB 61 GGARCCCGAAGCCCGCAAAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
QY 121 CATGTATAACAGCAAAAGGGAGCTCTGCGGGTATCGAGAGTCCCGCGAGCGAGTGA 180
DB 121 CATGTATAACAGCAAAAGGGAGCTCTGCGGGTATCGAGAGTCCCGCGAGCGAGTGA 180

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Qy 181 CACCAAGTTTCGGGAACACAGTGAAGCTTATCTTAAGGCCACCGAGCTACCAAGGAC 240
    |||
Db 181 CACCAAGTTTCGGGAACACAGTGAAGCTTATCTTAAGGCCACCGAGCTACCAAGGAC 240
Qy 241 TCGAGGCTTAAAGACTGACCATGCTGTCTGCGGTGACGACTTGTGTCATGCGCC 300
    |||
Db 241 GGCAGGCTGAGAGACTGACCATGCTGTCTGCGGTGACGACTTGTGTCATGCGCTGA 300
Qy 301 GAGCGAGGCGGTAGAGAGATTTCCCAACCCCTCCGAGCC 340
    |||
Db 301 GAGCGATGCGGTAGAGAGATTAACCGAGCCCTCCGAGCC 340

```

RESULT 4

```

US-09-878-281A-116
; Sequence 116, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 116
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-116

```

```

Query Match 75.0%; Score 255; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 1,66-64;
Matches 285; Conservative 2; Mismatches 52; Indels 0; Gaps 0;

```

```

Qy 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTGACT 60
    |||
Db 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTGACT 60
Qy 61 GGAACCCGAGCCGCAAGCAATATCCGCTCTACAGAGAGCTCTTACTTGGGCGGC 120
    |||
Db 61 GGAACCCGAGCCGCAAGCAATATCCGCTCTACAGAGAGCTCTTACTTGGGCGGC 120
Qy 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGGCTATA 180
    |||
Db 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGGCTATA 180
Qy 181 CACCAAGTTTCGGGAACACAGTGAAGCTTATCTTAAGGCCACCGAGCTACCAAGG 240
    |||
Db 181 CACCAAGTTTCGGGAACACAGTGAAGCTTATCTTAAGGCCACCGAGCTACCAAGG 240
Qy 241 TCGAGGCTTAAAGACTGACCATGCTGTCTGCGGTGACGACTTGTGTCATGCGCC 300
    |||
Db 241 TCGAGGCTTAAAGACTGACCATGCTGTCTGCGGTGACGACTTGTGTCATGCGCC 300
Qy 301 GAGCGAGGCGGTAGAGAGATTTCCCAACCCCTCCGAGCC 339
    |||
Db 301 GAGCGATGCGGTAGAGAGATTAACCGAGCCCTCCGAGCC 339

```

RESULT 5

```

US-09-878-281A-106
; Sequence 106, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284

```

```

; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 106
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-106

```

```

Query Match 74.4%; Score 252.8; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 76-64;
Matches 284; Conservative 2; Mismatches 54; Indels 0; Gaps 0;

```

```

Qy 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTGACT 60
    |||
Db 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTGACT 60
Qy 61 GGAACCCGAGCCGCAAGCAATATCCGCTCTACAGAGAGCTCTTACTTGGGCGGC 120
    |||
Db 61 GGAACCCGAGCCGCAAGCAATATCCGCTCTACAGAGAGCTCTTACTTGGGCGGC 120
Qy 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGGCTATA 180
    |||
Db 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGGCTATA 180
Qy 181 CACCAAGTTTCGGGAACACAGTGAAGCTTATCTTAAGGCCACCGAGCTACCAAGG 240
    |||
Db 181 CACCAAGTTTCGGGAACACAGTGAAGCTTATCTTAAGGCCACCGAGCTACCAAGG 240
Qy 241 TCGAGGCTTAAAGACTGACCATGCTGTCTGCGGTGACGACTTGTGTCATGCGCC 300
    |||
Db 241 TCGAGGCTTAAAGACTGACCATGCTGTCTGCGGTGACGACTTGTGTCATGCGCC 300
Qy 301 GAGCGAGGCGGTAGAGAGATTTCCCAACCCCTCCGAGCC 340
    |||
Db 301 GAGCGATGCGGTAGAGAGATTAACCGAGCCCTCCGAGCC 340

```

RESULT 6

```

US-08-836-075A-87
; Sequence 87, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.

```

REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 87:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-87

Query Match 73.4%; Score 250.2; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 4e-63;
Matches 282; Conservative 2; Mismatches 56; Indels 0; Gaps 0;

OY 1 CTCACGGTGACTGAAAAAGACATCAGGGTCGAGGAAAGATCTATCAATGTTGACCT 60
DB 1 CTCACCGTAAACGAAAGAGACATCAGGGTCGAGGAAAGATCTATCAATGTTGACCT 60
OY 61 GGARCCGAGGCCCGCAAGCAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
DB 61 GGAGCCGAGGCCCGCAAGCAATATCCGCCCTCACAAGAGCTCTTATGTGGCGGTC 120
OY 121 CATGTATAACAGCAAGGGGAGCTCTGGGGGTATCGAGGTGCGCGGAGCGAGTGA 180
DB 121 CATGTTAAACAGCAAGGGAGCTTATGTGGCTACCGCAGGTCCCGCAAGCGCGCTCTA 180
OY 181 CACCAAGATTTCGGGAACACAGTACCTGTATCTTAAAGCCACCGAGCTACCGAGG 240
DB 181 CACCAACGACTTCGGAACACAGTACCTGTATCTTAAAGCCACCGAGCTACCGAGG 240
OY 241 TGCAGGCTTAAAGACTGACATGCTGTGCTGCGGTGACGACTTGCTGTATGCCGA 300
DB 241 GGCCTGGCTGAAGATTGCAATGCTGTGCGGGAGCACTGTGCTGTATGCCGA 300
OY 301 GAGCGAGGCGGTAGAGAGAGATTCCCAACCCCTCGGAGC 339
DB 301 GAGCGATGGCGTAGAGAGAGCCCGGAGCCCTCCAGC 339

RESULT 7

US-09-878-281A-108
Sequence 108, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 108
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-108

Query Match 73.4%; Score 249.6; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 5.9e-63;
Matches 282; Conservative 2; Mismatches 56; Indels 0; Gaps 0;

OY 1 CTCACGGTGACTGAAAAAGACATCAGGGTCGAGGAAAGATCTATCAATGTTGACCT 60
DB 1 CTCACGTGTAACGAAAGAGACATCAGGGTCGAGGAAAGATCTATCAATGTTGACCT 60
OY 61 GGARCCGAGGCCCGCAAGCAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
DB 61 GGAGCCGAGGCCCGCAAGCAATATCCGCCCTTAAACAGAGACTCTTACGTGGCGGTC 120

OY 121 CATGTATAACAGCAAGGGGAGCTCTGGGGTATCGAGGTGCCCGCGAGCGAGTGA 180
DB 121 CATGATATAACAGCAAGGGGAGACTGTGGGTATCGAGATGCCGTGCGAGCGGCTTA 180
OY 181 CACCAAGATTTCGGGAACACAGTACCTGTATCTTAAAGCCACCGAGCTACCGAGG 240
DB 181 CACCAAGCTTCGGGAACACAGTACCTGTATCTTAAAGCCACCGAGCTATCAAGC 240
OY 241 TGCAGGCTTAAAGACTGACATGCTGTGCGGTGACGAGACTTGCTGTATGCCGA 300
DB 241 GGCCTGGCTGAAGACTGACATGCTGTGCGGTGACGAGACTTGCTGTATGCCGA 300
OY 301 GAGCGAGGCGGTAGAGAGATTCCCAACCCCTCGGAGC 340
DB 301 AAGCGATGGCGTAGAGAGCAAAAGAGCCCTCGAGGC 340

RESULT 8

US-09-878-281A-110
Sequence 110, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 110
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-110

Query Match 73.4%; Score 249.6; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 5.9e-63;
Matches 282; Conservative 2; Mismatches 56; Indels 0; Gaps 0;

OY 1 CTCACGGTGACTGAAAAAGACATCAGGGTCGAGGAAAGATCTATCAATGTTGACCT 60
DB 1 CTCACGTGTAACGAAAGAGACATCAGGGTCGAGGAAAGATCTATCAATGTTGACCT 60
OY 61 GGARCCGAGGCCCGCAAGCAATATCCGCCCTCACAAGAGCTCTTACTTGGCGGCC 120
DB 61 GGAGCCGAGGCCCGCAAGCAATATCCGCCCTTAAACAGAGACTCTTATGTGGCGGTC 120
OY 121 CATGTATAACAGCAAGGGGAGCTCTGGGGTATCGAGGTGCCCGCGAGCGAGTGA 180
DB 121 CATGATATAACAGCAAGGGGAGCTGTGGGTATCGAGATGCCCGCAAGCGCGCTCTA 180
OY 181 CACCAAGATTTCGGGAACACAGTACCTGTATCTTAAAGCCACCGAGCTACCGAGG 240
DB 181 CACCAACGACTTCGGAACACAGTACCTGTATCTTAAAGCCACCGAGCTACCGAGG 240
OY 241 TGCAGGCTTAAAGACTGACATGCTGTGCGGTGACGAGACTTGCTGTATGCCGA 300
DB 241 GTCAGGCTGAGAGACTGACATGCTGTGCTGTATGTGATGACACAGCTGTGCTGTCGA 300
OY 301 GAGCGAGGCGGTAGAGAGATTCCCAACCCCTCGGAGC 340
DB 301 GAGCGATGGCGTAGAGAGCAAAAGAGCCCTCGAGGC 340

RESULT 9

US-09-878-281A-201
Sequence 201, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 201
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-201

Query Match 73.1%; Score 248.6; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 1.2e-62;
Matches 281; Conservative 2; Mismatches 56; Indels 0; Gaps 0;

QY 1 CTCACGGGTGACTGAAAAGACATCAGGGTCCGAGAGAGATCTATCATGTTTGACT 60
DB 1 CTCACGTGACTGAGAGACATCAGGGTCCGAGAGAGATCTATCATGTTTGACT 60
QY 61 GGARCCCGAAGCCCGCAAGCAATATCCGCCCTCAGAGAGACTCTACTTGGGGGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGCAATATCCGCCCTCAGAGAGACTCTACTTGGGGGGCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGCGGGTATCGAGGTCCCGCGAGCGAGTGA 180
DB 121 TATGTACATATAGCAAGGAGACTTTGCGGGTATCGAGGTCCCGCGAGCGAGTGA 180
QY 181 CACCAAGATTTCGGGAACACAGTAGACCTGTATCTTAAGGCCACCGCATCAAGAGG 240
DB 181 TACCAAGACTTCGGGAACACAGTAGACCTGTATCTTAAGGCCACCGCATCAAGAGG 240
QY 241 TGCAGGCTTAAGAACTGACCATGCTGCTGCGGTGACGACTGTTGTCATGCCGA 300
DB 241 TGCAGGCTTAAGAACTGACCATGCTGCTGCGGTGACGACTGTTGTCATGCCGA 300
QY 301 GAGCGAGGCGGTAGAGAGATTCCTCAACCCCTCCGAGC 339
DB 301 AAGCGGTGCGGTGAGAGAGATTCCTCAACCCCTCCGAGC 339

RESULT 10

US-09-878-281A-112
Sequence 112, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 112
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-112

Query Match 72.5%; Score 246.4; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 5e-62;
Matches 280; Conservative 2; Mismatches 58; Indels 0; Gaps 0;

QY 1 CTCACGGGTGACTGAAAAGACATCAGGGTCCGAGAGAGATCTATCATGTTTGACT 60
DB 1 CTCACGTGACTGAGAGACATCAGGGTCCGAGAGAGATCTATCATGTTTGACT 60
QY 61 GGARCCCGAAGCCCGCAAGCAATATCCGCCCTCAGAGAGACTCTACTTGGGGGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGCAATATCCGCCCTCAGAGAGACTCTACTTGGGGGGCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGCGGGTATCGAGGTCCCGCGAGCGAGTGA 180
DB 121 TATGTACATATAGCAAGGAGACTTTGCGGGTATCGAGGTCCCGCGAGCGAGTGA 180

DB 121 CATGTATTAACAGCAAGGAGACTGTGTGGTATCGAGATCCCGCAAGCGGCTGA 180
QY 181 CACCAAGATTTCGGGAACACAGTAGACCTGTATCTTAAGGCCACCGCATCAAGAGG 240
DB 181 CACCAAGACTTCGGGAACACAGTAGACCTGTATCTTAAGGCCACCGCATCAAGAGG 240
QY 241 TGCAGGCTTAAGAACTGACCATGCTGCTGCGGTGACGACTTGTGTCATGCCGA 300
DB 241 GCGGGGCTGAGAGACTGACCATGTTGCTGTGGTATGACCTGTGTCATGCCGA 300
QY 301 GAGCGAGGCGGTAGAGAGATTCCTCAACCCCTCCGAGC 340
DB 301 GAGCGATGCGGTGAGAGAGATTCCTCAACCCCTCCGAGC 340

RESULT 11

US-09-878-281A-114
Sequence 114, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 114
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-114

Query Match 72.0%; Score 244.8; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 1.5e-61;
Matches 279; Conservative 2; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACGGGTGACTGAAAAGACATCAGGGTCCGAGAGAGATCTATCATGTTTGACT 60
DB 1 CTCACGTGACTGAGAGAGATCAGGATCCGAGAGAGATCTATCATGTTTGACT 60
QY 61 GGARCCCGAAGCCCGCAAGCAATATCCGCCCTCAGAGAGACTCTACTTGGGGGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGCAATATCCGCCCTCAGAGAGACTCTACTTGGGGGGCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGCGGGTATCGAGGTCCCGCGAGCGAGTGA 180
DB 121 TATGTACATATAGCAAGGAGACTTTGCGGGTATCGAGGTCCCGCGAGCGAGTGA 180
QY 181 CACCAAGATTTCGGGAACACAGTAGACCTGTATCTTAAGGCCACCGCATCAAGAGG 240
DB 181 CACCAAGACTTCGGGAACACAGTAGACCTGTATCTTAAGGCCACCGCATCAAGAGG 240
QY 241 TGCAGGCTTAAGAACTGACCATGCTGCTGCGGTGACGACTTGTGTCATGCCGA 300
DB 241 GCGGGGCTGAGAGACTGACCATGTTGCTGTGGTATGACCTGTGTCATGCCGA 300
QY 301 GAGCGAGGCGGTAGAGAGATTCCTCAACCCCTCCGAGC 340
DB 301 GAGCGGCGGCTGAGAGAGATTCCTCAACCCCTCCGAGC 340

RESULT 12

US-09-878-281A-205
Sequence 205, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A

;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 205
;; LENGTH: 340
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-205

Query Match 72.0%; Score 244.8; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 1.5e-61;
Matches 279; Conservative 2; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACGGGTGACTGAAAAAGACATCAGGGTGGAGAGAGATCTTCAATGTTGAGACT 60
DB 1 CTCACGGGTGACGAAAGAGATATCAGACCGAGAAAGAGATCTTCAAGTCTGAGACT 60
QY 61 GGARCCCGAAGCCCGCAAAAGCAATATCCGCCCTTCAAGAGAGCTTACTTGGCGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGTGATATCCGCCCTTAAAGAAAGACTTACGTGGCGGTCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGGGGGTATCGAGGTGCCCGGAGCGAGTGTA 180
DB 121 CATGTACAACCTCAAGGGGGACCTATGCGGGCAAGAGGTGCCCGAAGCGGGGTCTA 180
QY 181 CACCAAGTTTGGGAAACAGATGACCTGCTATCTTAAAGCCACCGAGACTACAGGGC 240
DB 181 CACCAAGCTTGGGAAACAGTATGATCTTAAAGCTTAAAGCTTAAAGCTTAAAGCT 240
QY 241 TGCAGGCTTAAAGAACTGACCATCTGCTCTGCGGTGACGACTTGTGTCATGCGCGA 300
DB 241 GCGAGGTCTGAAGAGGTGACGATCTGTTTGTGGAAGCGACTTAAAGTGTGATCTGCGA 300
QY 301 GAGCGAGGCGCTGAGAGAGAGATCCCAACCCCTCCGAGCC 340
DB 301 GAGCGGCGGCTGAGAGAGATGCAAGACCCCTCCGAGCC 340

RESULT 13

US-09-878-281A-203
;; Sequence 203, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 203
;; LENGTH: 340
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-203

Query Match 71.7%; Score 243.8; DB 3; Length 340;
Best Local Similarity 82.0%; Pred. No. 2.9e-61;
Matches 278; Conservative 2; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACGGGTGACTGAAAAAGACATCAGGGTGGAGAGAGATCTTCAATGTTGAGACT 60
DB 1 CTCACAGTACTGAAAGAGACATCAGGGTGGAGAGAGATCTTCAAGTGTGAGACT 60
QY 61 GGARCCCGAAGCCCGCAAAAGCAATATCCGCCCTTCAAGAGAGCTTACTTGGCGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGTGATATCTGCCCTCACTGAAGACTTAAAGTGTGGCGGTCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGGGGGTATCGAGGTGCCCGGAGCGAGTGTA 180
DB 121 CATGTACAACAGCAAGGGAGAGACTTATGCGGGTATCCGTAGATGCGCGAGCGGCTATA 180

QY 181 CACCAGAAGTTTCGGGAACACAGTACTGCTATCTTAAAGCCACCGAGCTACAGGGC 240
DB 181 CACCAGAAGTTTCGGGAACACTGAGTGTCTTCTCAAGGCCACACAGCGGCAACAAAG 240
QY 241 TGCAGGCTTAAAGAACTGACCATCTGCTGTCTGCGGTGAGAGACTTGTCTATCGCGCA 300
DB 241 CGTGGCTTAAAGAACTGACCATCTGCTGTCTGCGGTGAGAGACTTGTCTATCGCGCA 300
QY 301 GAGCGAGGCGCTGAGAGAGATTCCTCAACCCCTCCGAGC 339
DB 301 AAGCGATGTCTCGAAGAGAGCCGCCAGCCCTCGAGC 339

RESULT 14

US-09-878-281A-211
;; Sequence 211, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 211
;; LENGTH: 340
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (11)-(11)
;; OTHER INFORMATION: "n" is any nucleotide
;; NAME/KEY: misc feature
;; LOCATION: (327)-(327)
;; OTHER INFORMATION: "n" is any nucleotide
;; NAME/KEY: misc feature
;; LOCATION: (333)-(334)
;; OTHER INFORMATION: "n" is any nucleotide
;; NAME/KEY: misc feature
;; LOCATION: (340)-(340)
;; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-211

Query Match 69.6%; Score 236.6; DB 3; Length 340;
Best Local Similarity 80.2%; Pred. No. 3.6e-59;
Matches 272; Conservative 2; Mismatches 65; Indels 0; Gaps 0;

QY 1 CTCACGGGTGACTGAAAAAGACATCAGGGTGGAGAGAGATCTTCAATGTTGAGACT 60
DB 1 CTCGACTGTGNCAGAGAGACATCAGGAGAGAGAGAGATCTTCAATGTTGAGACT 60
QY 61 GGARCCCGAAGCCCGCAAAAGCAATATCCGCCCTTCAAGAGAGCTTACTTGGCGGCC 120
DB 61 GGARCCCGAAGCCCGCAAGTGATATCCGCCCTTCAAGAGAGCTTAAAGTGTGGCGGTCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGGGGGTATCGAGGTGCCCGGAGCGAGTGTA 180
DB 121 CATGTACAACAGCAAGGGAGAGCTGTGGGCAACAGCGGGTGGCGGCAAGCGGGGTCTT 180
QY 181 CACCAAGTTTGGGAAACAGTACTGCTATCTTAAAGCCACCGAGCTTACAGGGC 240
DB 181 CACCAAGCTTGGGAAACAGTACTGCTTAAAGCCACAGCTTACTTAAAGC 240
QY 241 TGCAGGCTTAAAGAACTGACCATCTGCTGTCTGCGGTGAGAGACTTGTCTATCGCGCA 300
DB 241 AGCGGCTTAAAGAACTGACCATCTGCTGTCTGCGGTGAGAGACTTAAAGTGTCTTCCGA 300
QY 301 GAGCGAGGCGCTGAGAGAGATTCCTCAACCCCTCCGAGC 339

Db 301 GAGCCCGGTGTGAGAGAGATCCANAAACCNNCGACC 339

RESULT 15

US-09-878-281A-209
; Sequence 209, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 209
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (65)..(65)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (72)..(72)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (277)..(277)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (337)..(337)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-209

Query Match 66.6%; Score 226.6; DB 3; Length 340;
Best Local Similarity 78.2%; Pred. No. 2.9e-56;
Matches 265; Conservative 2; Mismatches 72; Indels 0; Gaps 0;

QY 1 CTCACGGTGAAGTAAAGACATCAGGGTCGAGAGAGATCTATCAATGTTGTGACCT 60
DB 1 CCCACCGTGAACGAGGACGACGAGGTCGAGAGAGATCTATCAATGTTGTGACCT 60
QY 61 GGAACCGGAGCGCGCAAGCAATATCGCCCTCAAGAGACGCTCTAATGTTGTGACCT 120
DB 61 GGAACCGGAGCGCGCAAGCAATATCGCCCTCAAGAGACGCTCTAATGTTGTGACCT 120
QY 121 CATGTATTAACAGCAAGGAGAGCTCTGCGGATCGAGAGGTCGCGCGAGCGAGTGT 180
DB 121 TATGCAACAAGCAAGGAGAGCTCTGCGGATCGAGAGGTCGCGCGAGCGAGTGT 180
QY 181 CACCAAGAGTTTGGGAAACAGTGAACCTGATTTAAGGCCACCGAGCTACCAAGGC 240
DB 181 CACCAAGAGTTTGGGAAACAGTGAACCTGATTTAAGGCCACCGAGCTACCAAGGC 240
QY 241 TGCAGGCGCTAAAGAGCTGACCATGCTGTGCGGTCGAGCACTTGATGTCATGCGCG 300
DB 241 CCGGCGCTTGAAGAGTTCACCATGCTGTGCGGTCGAGCACTTGATGTCATGCGCG 300
QY 301 GAGCGAGGCGTAGAGAGATTCACCAACCCCTCGAGC 339

Db 301 GAGCATTTGCATAGACGAGACAGCAAGCCCTCCGNAC 339

Search completed: January 11, 2006, 14:46:38
Job time : 101.519 secs

the huge blank (uspio)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-87

Perfect score: 340

Sequence: 1 ctccacgcgaacgaaggg.....accgcgcgaaccccaagct 340

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, NA:*

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3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
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9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	340	100.0	340	3	US-08-836-075A-87
2	273.4	80.4	340	3	US-09-878-281A-112
3	265.4	78.1	340	3	US-09-878-281A-106
4	262.8	77.3	340	3	US-08-836-075A-83
5	259	76.2	340	3	US-09-878-281A-108
6	258.4	75.0	340	3	US-09-878-281A-116
7	258	75.9	340	3	US-09-878-281A-110
8	256.8	75.5	340	3	US-09-878-281A-201
9	256.8	75.5	340	3	US-09-878-281A-203
10	250.2	73.6	340	3	US-08-836-075A-85
11	249.2	73.3	340	3	US-09-878-281A-209
12	244.6	71.9	340	3	US-09-878-281A-207
13	242.2	71.2	340	3	US-09-878-281A-211
14	233.4	68.6	340	3	US-09-878-281A-114
15	233.4	68.6	340	3	US-09-878-281A-205
16	179	52.6	340	3	US-08-441-971-20
17	179	52.6	340	3	US-08-221-653-20
18	179	52.6	340	3	US-08-442-144A-20
19	179	52.6	340	3	US-08-441-970-20
20	175.8	51.7	340	3	US-09-878-281A-217
21	171	50.3	340	3	US-08-441-971-21
22	171	50.3	340	3	US-08-221-653-21
23	171	50.3	340	3	US-08-442-144A-21
24	171	50.3	340	3	US-08-441-970-21

25	169.6	49.9	340	3	US-08-836-075A-63	Sequence 63, Appl
26	169.4	49.8	340	3	US-08-441-971-22	Sequence 22, Appl
27	169.4	49.8	340	3	US-08-221-653-22	Sequence 22, Appl
28	169.4	49.8	340	3	US-08-442-144A-22	Sequence 22, Appl
29	169.4	49.8	340	3	US-08-441-970-22	Sequence 22, Appl
30	168.8	49.6	340	3	US-08-441-971-17	Sequence 17, Appl
31	168.8	49.6	340	3	US-08-221-653-17	Sequence 17, Appl
32	168.8	49.6	340	3	US-08-442-144A-17	Sequence 17, Appl
33	168.8	49.6	340	3	US-08-441-970-17	Sequence 17, Appl
34	168.6	49.6	340	3	US-08-836-075A-105	Sequence 105, App
35	167.8	49.4	1716	3	US-09-674-677-6	Sequence 6, Appl1
36	167.4	49.2	335	3	US-08-836-075A-101	Sequence 101, App
37	167.2	49.2	340	3	US-08-836-075A-97	Sequence 97, Appl
38	167	49.1	340	3	US-08-836-075A-81	Sequence 81, Appl
39	166.8	49.1	340	3	US-08-836-075A-99	Sequence 99, Appl
40	165.2	48.6	340	3	US-08-441-971-2	Sequence 2, Appl1
41	165.2	48.6	340	3	US-08-221-653-2	Sequence 2, Appl1
42	165.2	48.6	340	3	US-08-442-144A-2	Sequence 2, Appl1
43	165.2	48.6	340	3	US-08-441-970-2	Sequence 2, Appl1
44	165.2	48.6	401	3	US-08-444-818-59	Sequence 59, Appl
45	165.2	48.6	1788	2	US-08-722-806A-1	Sequence 1, Appl1

ALIGNMENTS

RESULT 1
US-08-836-075A-87
; Sequence 87, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESS: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHEetical: NO

ANTI-SENSE: NO
US-08-836-075A-87

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 4.1e-81;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCACCCGTAACCGAAGGACATCAGGGTCGAGAGGAGGCTTATCAGTGTGTGATCT 60
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DB 1 CTCACCCGTAACCGAAGGACATCAGGGTCGAGAGGAGGCTTATCAGTGTGTGATCT 60
QY 61 GGAGCCAGAGGCCCGGCAAGGCAATATCCGCCCTCAACGAGAGACTTATGTGGCGGTCC 120
    |||
DB 61 GGAGCCAGAGGCCCGGCAAGGCAATATCCGCCCTCAACGAGAGACTTATGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGACCTTATGTGGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
    |||
DB 121 CATGTTTAAACAGCAAGGAGACCTTATGTGGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
QY 181 CACCAACAGCTTCGGAACAACATGCTGCTACCTCAAGGCGCGGCTTACAGAGC 240
    |||
DB 181 CACCAACAGCTTCGGAACAACATGCTGCTACCTCAAGGCGCGGCTTACAGAGC 240
QY 241 GGCCGCGCTGAAGATTGCAATGCTGCTTGCAGGAGAGACTGCTGTCATGCGCAGA 300
    |||
DB 241 GGCCGCGCTGAAGATTGCAATGCTGCTTGCAGGAGAGACTGCTGTCATGCGCAGA 300
QY 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAAAGCT 340
    |||
DB 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAAAGCT 340
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RESULT 2

US-09-878-281A-112
; Sequence 112, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Imogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 112
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-112

Query Match 80.4%; Score 273.4; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 2.1e-63;
Matches 298; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

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QY 1 CTCACCGTAACCGAAGGACATCAGGGTCGAGAGGAGGCTTATCAGTGTGTGATCT 60
    |||
DB 1 CTCACCGTAACCGAAGGACATCAGGGTCGAGAGGAGGCTTATCAGTGTGTGATCT 60
QY 61 GGAGCCAGAGGCCCGGCAAGGCAATATCCGCCCTCAACGAGAGACTTATGTGGCGGTCC 120
    |||
DB 61 GGAGCCAGAGGCCCGGCAAGGCAATATCCGCCCTCAACGAGAGACTTATGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGACCTTATGTGGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
    |||
DB 121 CATGTTTAAACAGCAAGGAGACCTTATGTGGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
QY 181 CACCAACAGCTTCGGAACAACATGCTGCTACCTCAAGGCGCGGCTTACAGAGC 240
    |||
DB 181 CACCAACAGCTTCGGAACAACATGCTGCTACCTCAAGGCGCGGCTTACAGAGC 240
QY 241 GGCCGCGCTGAAGATTGCAATGCTGCTTGCAGGAGAGACTGCTGTCATGCGCAGA 300
    |||
DB 241 GGCCGCGCTGAAGATTGCAATGCTGCTTGCAGGAGAGACTGCTGTCATGCGCAGA 300
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DB 241 GGCCGCGCTGAAGATTGCAATGCTGCTTGCAGGAGAGACTGCTGTCATGCGCAGA 300
QY 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAAAGC 339
    |||
DB 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAAAGC 339
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RESULT 3

US-09-878-281A-106
; Sequence 106, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Imogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 106
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-106

Query Match 78.1%; Score 265.4; DB 3; Length 340;
Best Local Similarity 86.4%; Pred. No. 2.8e-61;
Matches 293; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

```
QY 1 CTCACCGTAACCGAAGGACATCAGGGTCGAGAGGAGGCTTATCAGTGTGTGATCT 60
    |||
DB 1 CTCACCGTAACCGAAGGACATCAGGGTCGAGAGGAGGCTTATCAGTGTGTGATCT 60
QY 61 GGAGCCAGAGGCCCGGCAAGGCAATATCCGCCCTCAACGAGAGACTTATGTGGCGGTCC 120
    |||
DB 61 GGAGCCAGAGGCCCGGCAAGGCAATATCCGCCCTCAACGAGAGACTTATGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGACCTTATGTGGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
    |||
DB 121 CATGTTTAAACAGCAAGGAGACCTTATGTGGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
QY 181 CACCAACAGCTTCGGAACAACATGCTGCTACCTCAAGGCGCGGCTTACAGAGC 240
    |||
DB 181 CACCAACAGCTTCGGAACAACATGCTGCTACCTCAAGGCGCGGCTTACAGAGC 240
QY 241 GGCCGCGCTGAAGATTGCAATGCTGCTTGCAGGAGAGACTGCTGTCATGCGCAGA 300
    |||
DB 241 GGCCGCGCTGAAGATTGCAATGCTGCTTGCAGGAGAGACTGCTGTCATGCGCAGA 300
QY 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAAAGC 339
    |||
DB 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAAAGC 339
```

RESULT 4
US-08-836-075A-83
; Sequence 83, Application US/08836075A
; Patent No. 6180768

; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433


```

/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Microsoft Word 6.0 / ASCII text output
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/836,075A
/ FILING DATE: 21 Apr 1997
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/EP95/04155
/ FILING DATE: 23 Oct 1995
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: EP 94870166.9
/ FILING DATE: 21 Oct 1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: EP 95870076.7
/ FILING DATE: 28 Jun 1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: KAMMERER, PATRICIA A.
/ REGISTRATION NUMBER: 29,775
/ REFERENCE/DOCKET NUMBER: INNS:004
/ INFORMATION FOR SEQ ID NO: 83:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHEetical: NO
/ ANTI-SENSE: NO
/
/ US-08-836-075A-83

```

```

Query Match      77.3%; Score 262.8; DB 3; Length 340;
Best Local Similarity 85.8%; Pred. No. 1.4e-60;
Matches 291; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 1 CTCACCGTTAACCGAAGGAGCATCAGGCTCGAGGAGGAGGCTCTACAGTGTGTGATCT 60
DB 1 CTCACCTGTAAACGAAAAGACATCAGCGCCGAGAGAGGCTCTACAGTGTGTGACT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGACTCTATGTGGGGGCTC 120
DB 61 GGAGCCGAGAGCTCGAAGGTTATTAACCCCTCAGAGAAAGACTCTAGTGGGGGCTC 120
QY 121 CATGTTTAAACAGAGGAGGAGGAGCTATGTGGCTACGAGGAGGAGGAGGAGGCTCTA 180
DB 121 CATGCAACACAGAGGAGGAGGAGCTTGTGGTATCGAGAGATCCGCGCAAGGCGGCTCTA 180
QY 181 CACCAACAGCTTCGGAACACACTGACTGTACTACCTCAAGGCGAGCGCGCTACAGAGG 240
DB 181 CACGACACAGCTTCGGAACACACTGACTGTACTACCTCAAGGCGCTACAGTCTA 240
QY 241 GGCCGGCCTGAAGATTGCAATATGCTGTTTTCGGGAGAGCACTGTGTCTATGCAAG 300
DB 241 GGCAAGGCTGAGAGACTGCAACATGCTGTGTTTTCGGGTGAGCACTGTGTCTATG 300
QY 301 GAGCGATGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 339
DB 301 GAGCGATGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 339

RESULT 5
US-09-878-281A-108
/ Sequence 108, Application US/09878281A
/ Patent No. 6762024
/ GENERAL INFORMATION:
/ APPLICANT: Imogenetics N.V.
/ TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
/ TITLE OF INVENTION: and therapy
/ FILE REFERENCE: 35
/ CURRENT APPLICATION NUMBER: US/09/878,281A
/ CURRENT FILING DATE: 2001-06-12
/ NUMBER OF SEQ ID NOS: 284

```

```

/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 108
/ LENGTH: 340
/ TYPE: DNA
/ ORGANISM: hepatitis C virus
/
/ US-09-878-281A-108

```

```

Query Match      76.2%; Score 259; DB 3; Length 340;
Best Local Similarity 85.3%; Pred. No. 1.4e-59;
Matches 289; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

```

```

QY 1 CTCACCGTTAACCGAAGGAGCATCAGGCTCGAGGAGGAGGAGGCTCTACAGTGTGTGATCT 60
DB 1 CTCACCTGTAAACGAAAAGACATCAGCGCCGAGAGAGGAGGATATCAGTGTGTGACT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGACTCTATGTGGGGGCTC 120
DB 61 GGAGCCGAGAGCTCGAAGGTTATTAACCCCTCAGAGAAAGACTCTAGTGGGGGCTC 120
QY 121 CATGTTTAAACAGAGGAGGAGGAGCTATGTGGCTACCGGAGGAGGAGGAGGAGGAGGCTCTA 180
DB 121 CATGCAACACAGAGGAGGAGGAGCTTGTGGTATCGAGAGATCCGCGCAAGGCGGCTCTA 180
QY 181 CACCAACAGCTTCGGAACACACTGACTGTACTACCTCAAGGCGAGCGCGCTACAGAGG 240
DB 181 CACCAACAGCTTCGGAACACACTGACTGTACTACCTCAAGGCGAGCGCGCTACAGAGG 240
QY 241 GGCCGGCCTGAAGATTGCAATATGCTGTTTTCGGGAGAGCACTGTGTCTATGCAAG 300
DB 241 GGCCGGGCTGAGAGACTGCAACATGTTTGTCTGTGTGTATGACTCTGTGTCTATGCTGA 300
QY 301 GAGCGATGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 339
DB 301 AAGCGATGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 339

```

```

RESULT 6
US-09-878-281A-116
/ Sequence 116, Application US/09878281A
/ Patent No. 6762024
/ GENERAL INFORMATION:
/ APPLICANT: Imogenetics N.V.
/ TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
/ TITLE OF INVENTION: and therapy
/ FILE REFERENCE: 35
/ CURRENT APPLICATION NUMBER: US/09/878,281A
/ CURRENT FILING DATE: 2001-06-12
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 116
/ LENGTH: 340
/ TYPE: DNA
/ ORGANISM: hepatitis C virus
/
/ US-09-878-281A-116

```

```

Query Match      76.0%; Score 258.4; DB 3; Length 340;
Best Local Similarity 85.0%; Pred. No. 2e-59;
Matches 289; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

```

```

QY 1 CTCACCGTTAACCGAAGGAGCATCAGGCTCGAGGAGGAGGAGGCTCTACAGTGTGTGATCT 60
DB 1 CTCACCTGTGAAGAGAGACATCAAGGTGGAAGAAAGATCTATCAGTGTGTGATCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGACTCTATGTGGGGGCTC 120
DB 61 GGAGCCGAGAGCTCGAAGGTTATTAAGCCCTCAGAGAGGAGACTCTATGTTGGGGGCTC 120
QY 121 CATGTTTAAACAGAGGAGGAGGAGCTATGTGGCTACCGGAGGAGGAGGAGGAGGAGGCTCTA 180
DB 121 CATGATTAACAGAGGAGGAGGAGCTTGTGGGTATCTGTATGATGCGCGAGCGGCTATA 180
QY 181 CACCAACAGCTTCGGAACACACTGACTGTACTACCTCAAGGCGAGCGCGCTACAGAGG 240
DB 181 CACCAACAGCTTCGGAACACACTGACTGTACTACCTCAAGGCGAGCGCGCTACAGAGG 240

```

Db 181 CACCAACGCTTCGGGAACATGACGTACTTAAGGCTCAGACCATCAGGd 240
 Qy 241 GGGCGCCGCGAAGATTGACAAATGCTGTTGGCGGAGCACTGTCATGCGAGA 300
 Db 241 TCCGGGCTGAAGATTGACCAATCTGTTGGCTGACGACTATGTCATGCGCGA 300
 Qy 301 GAGCGATGGCTGACGAGACCGCGACCTCCAACT 340
 Db 301 GAGCGGTCGCTTGAAGAGACAAACGACCTCTCGAGCT 340

RESULT 7

US-09-878-281A-110
 ; Sequence 110, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 110
 ; LENGTH: 340
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-110

Query Match 75.9%; Score 258; DB 3; Length 340;
 Best Local Similarity 85.2%; Pred. No. 2,6e-59;
 Matches 288; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGACATCAGGCTCGAGAGAGCTTATCATGTTGATCT 60
 Db 1 CTCACGTTAAACGAAAGGACATCAGGCTCGAGAGAGCTTATCATGTTGATCT 60
 Qy 61 GGAGCCAGAGCCCGCAAGGCAATATCCGCCCTCAGAGAGAGCTGATGGGCGGTCC 120
 Db 61 GGAGCCAGAGCCCGCAAGGCAATATCCGCCCTCAGAGAGAGCTGATGGGCGGTCC 120
 Qy 121 CATGTTAAACAGCAAGGAGACCTATGTCGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
 Db 121 CATGCAATATAGCAAGGAGACCTGTCGGGTATGCCAGATGCGCGCAAGCGCGCTCTA 180
 Qy 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCCCAAGCGCGCTACACAGAC 240
 Db 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCCCAAGCGCGCTACAGGCT 240
 Qy 241 GGGCGGCTGAAGGATTGCAATGCTGGTTGGGGGAGCACTGTCATTCGCAGA 300
 Db 241 GTGAGGGCTGAGAGACTGCACTATGCTGTCTATGTCAGACTGTGTCATTGCCA 300
 Qy 301 GAGCGATGGCTGACGAGACCGCGACCTCCAACT 338
 Db 301 GAGCGATGGCTGACGAGACCAACGACCTCTCGAG 338

RESULT 8

US-09-878-281A-201
 ; Sequence 201, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 201

; LENGTH: 340
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-201

Query Match 75.5%; Score 256.8; DB 3; Length 340;
 Best Local Similarity 84.7%; Pred. No. 5.4e-59;
 Matches 288; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGACATCAGGCTGAGAGAGAGCTTATCATGTTGATCT 60
 Db 1 CTCACGTTGACTGAGAGACATCAGGCTGAGAGAGAGCTTATCATGTTGATCT 60
 Qy 61 GGAGCCAGAGCCCGCAAGGCAATATCCGCCCTCAGAGAGAGCTTATGTCGCGGTCC 120
 Db 61 GGAGCCAGAGCCCGCAAGGCAATATCCGCCCTCAGAGAGAGCTTATGTCGCGGTCC 120
 Qy 121 CATGTTAAACAGCAAGGAGACTATGTCGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
 Db 121 TATGTAAATATAGCAAGGAGACTTTCGGGTATCGCAGTGCAGCGCAAGCGCGCTATA 180
 Qy 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCCCAAGCGCGCTACAGAGC 240
 Db 181 TACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCCCAAGCGCGCTACAGAGC 240
 Qy 241 GGGCGGCTGAAGGATTGCAATGCTGTTGGCGGAGCACTGTCATTCGACAGA 300
 Db 241 TCCGGGCTGAAGGACTGCAATGCTGTTGGCGGTATCGACACTTATGTCATGCTGA 300
 Qy 301 GAGCGATGGCTGACGAGACCGCGACCTCCAACT 340
 Db 301 AAGCGTGGCTGAGAGAGCAAGCGACCTCTCGAGCT 340

RESULT 9

US-09-878-281A-203
 ; Sequence 203, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 203
 ; LENGTH: 340
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-203

Query Match 75.5%; Score 256.8; DB 3; Length 340;
 Best Local Similarity 84.7%; Pred. No. 5.4e-59;
 Matches 288; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGACATCAGGCTGAGAGAGAGCTTATCATGTTGATCT 60
 Db 1 CTCACGAGTGAAGTGAAGACATCAGGCTGAGAGAGAGCTTATCATGTTGATCT 60
 Qy 61 GGAGCCAGAGCCCGCAAGGCAATATCCGCCCTCAGAGAGAGCTTATGTCGCGGTCC 120
 Db 61 GGAGCCAGAGCCCGCAAGGCAATATCCGCCCTCAGAGAGAGCTTATGTCGCGGTCC 120
 Qy 121 CATGTTAAACAGCAAGGAGACTATGTCGCTACCGCAGGTGCGCGCAAGCGCGCTCTA 180
 Db 121 CATGCAACAAAGCAAGGAGACTTATGCGGGTATCGGTAGATGCCCGCAGCGCGCTATA 180
 Qy 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCCCAAGCGCGCTACAGAGC 240
 Db 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCCCAAGCGCGCTACAGAGC 240

Qy 241 GCGCCGCTGAAGATTGCAATGCTGTGTTGCGGGAGCACTGTGTCATCGCADA 300
 Db 241 CGCTGCGCTGAAGATTGCAATGCTGTGTTGCGGGAGCACTGTGTCATCGCADA 300
 Qy 301 GAGCGATGCGCTGAGAGAGACCGCGAGCCTCCAGCT 340
 Db 301 AAGCGATGCTGTCGAAGAGACCGCGAGCCTCCAGCT 340

RESULT 10

US-08-836-075A-85
 ; Sequence 85, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; NUMBER OF INVENTIONS: AGENTS
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/836,075A
 ; FILING DATE: 21 Apr 1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/EP95/04155
 ; FILING DATE: 23 Oct 1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 94870166.9
 ; FILING DATE: 21 Oct 1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 95870076.7
 ; FILING DATE: 28 Jun 1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: KAMMERER, PATRICIA A.
 ; REGISTRATION NUMBER: 29,775
 ; REFERENCE/DOCKET NUMBER: INNS:004
 ; INFORMATION FOR SEQ ID NO: 85:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 340 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: CDNA
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; US-08-836-075A-85

Query Match 73.6%; Score 250.2; DB 3; Length 340;
 Best Local Similarity 83.2%; Pred. No. 3,1e-57;
 Matches 282; Conservative 2; Mismatches 55; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGACATCATGGTGCAGAGAGAGTCTTCACTGTGTCATCT 60
 Db 1 CTCACCGTAAACGAAAGGACATCATGGTGCAGAGAGAGTCTTCACTGTGTCATCT 60
 Qy 61 GAGGACAGAGGCGCGAAGGACATATCCGCTCAAGAGAGAGTCTTATGTGGGCGTCC 120
 Db 61 GAGGACAGAGGCGCGAAGGACATATCCGCTCAAGAGAGAGTCTTATGTGGGCGTCC 120
 Qy 121 CATGTTTAAACAGCAAGGAGACCTATGTGCTTACCGCAGGTGCGCGAAGCGGCTCTA 180
 Db 121 CATGTTTAAACAGCAAGGAGACCTATGTGCTTACCGCAGGTGCGCGAAGCGGCTCTA 180

Db 121 CATGTTTAAACAGCAAGGAGGAGCTCTGCGGGTATCGAGAGTCCGCGAGCGAGTGT 180
 Qy 181 CACCAACGAGCTTCCGAAACACACTGACCTGTACTCTAAGGCGCAGCGCGCTTACAGAGC 240
 Db 181 CACCAACGAGCTTCCGAAACACACTGACCTGTACTCTAAGGCGCAGCGCGCTTACAGAGC 240
 Qy 241 GAGCGGCTGAAGATTGCAATGCTGTGTTGCGGGAGCAGCTGTGTCATCGCAGA 300
 Db 241 TGCAGGCTTAAGAGCTGACATGCTGTGCGGGTGAAGACCTTGGTCTGTCATCGCAGA 300
 Qy 301 GAGCGATGCGCTGAGAGAGACCGCGAGCCTCCAGC 339
 Db 301 GAGCGAGGCGTGAAGAGAGATCCCAACCCCTCCAGC 339

RESULT 11

US-09-878-281A-209
 ; Sequence 209, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 209
 ; LENGTH: 340
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (13)..(13)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (23)..(23)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (65)..(65)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (72)..(72)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (277)..(277)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (337)..(337)
 ; OTHER INFORMATION: "n" is any nucleotide
 ; US-09-878-281A-209

Query Match 73.3%; Score 249.2; DB 3; Length 340;
 Best Local Similarity 82.6%; Pred. No. 5,7e-57;
 Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGACATCATGGTGCAGAGAGAGTCTTCACTGTGTCATCT 60
 Db 1 CTCACCGTAAACGAAAGGACATCATGGTGCAGAGAGAGTCTTCACTGTGTCATCT 60
 Qy 61 GAGGACAGAGGCGCGAAGGACATATCCGCTCAAGAGAGAGTCTTATGTGGGCGTCC 120
 Db 61 GAGGACAGAGGCGCGAAGGACATATCCGCTCAAGAGAGAGTCTTATGTGGGCGTCC 120
 Qy 121 CATGTTTAAACAGCAAGGAGACCTATGTGCTTACCGCAGGTGCGCGAAGCGGCTCTA 180
 Db 121 CATGTTTAAACAGCAAGGAGACCTATGTGCTTACCGCAGGTGCGCGAAGCGGCTCTA 180

[illegible]

RESULT 12

```

US-09-878-281A-207
; Sequence 207. Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and treatment
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 207
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-207

```

Query Match	71.9%	Score 244.6	DB 3	length 340
Best Local Similarity	82.6%	Pred. No. 9.5e-56		
Matches 280	Conservative	0	Mismatches 59	Indels 0
			Gaps	0

QY 1 CTCACCCGTAACCGAAGGGACATCAAGGGCTGAGAGAGAGTCTATCAGTGGTATCT 60

Db 1 CTCACCGTGACTGAAGGGACATTAGGGTCGAGAGAAAGATCTTACCAAGTCTGTGACT 60

QY 61 GGAGCCGAGAGGCCCGCAAGCATATTCGCCCTCACGAGAGACTCTATGTGGCGGTCT 120

Db 61 GGAGCCCGAGGCACGCAAGGTGATATTCGGTCTCACGAAAGACTCTACAAGGGCGGCC 120

QY 121 CATGTTTACAGCAAGGAGACCTATGTGGCTACCGAGGTGCGCGCAAGCGCGCTCTA 180

Db 121 CATGTATTAACAGCAAGGGGACCTATGCGGGCTTCGGAGGTGCGCGCAAGCGGGCTATA 180

QY 181 CACCACAGCTTCGGAACAACACTGACCTGTAACCTCAAGGCGACGGCGGCTTACAGAGC 240

Db 181 CACCAACACCTTCGGGAACAACGGTGCATCTCACTTTAAAGCCACAAGACACCAAGGGC 240

QY 241 GGCCTGGCTGAAGAGATTGCACATGTGCTGGTTGGGGGACGACCTGGTGCATCGCAGA 300

Db 241 TGCAGGGCTGAAAGATTGCACTATGCTGTAATGCGGTGAGACGACTTATGCTTATGCGCA 300

QY 301 GAGCGATGCGTGTGACGAGAGACCGCGGAGCCTCTCCAGC 339

Db 301 AAGCGGTGCGTGTGAGAGAGACCCCGAGCGCTCTCCAGC 339

RESULT 13

US-09-878-281A-211
; Sequence 211, Application US/09878281A
; Patent No. 6'762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prop
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12

```

; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 211
; LENGTH: 340
;
```

ORGANISM: hepatitis C virus
FEATURE:

```

;
; NAME/KEY: misc_feature
; LOCATION: (11) . (11)
;

```

```

;
OTHER INFORMATION: "n" is any nucleotide
FEATURE:
NAME/KEY: F123 feature

```

```

; NAME/KEY: misc feature
; LOCATION: (327)..(327)
OTHER INFORMATION: "n" is our midlocid

```

```

; OTHER INFORMATION: "1" is any nucleotide
;
; FEATURE:
NAME/KEY: misc feature

```

```

; NAME/NEI: mibc lealuc
; LOCATION: (333)..(334)
OTHER INFORMATION: "n" is any nucleotide

```

```
; OPEN INFORMATION.  H AS ANY UNCLASSIFIED  
; FEATURE:  
NAME/KEY: misc feature
```

```

; LOCATION: (340)..(340)
; OTHER INFORMATION: "n" is any nucleotide
;

```

US-09-878-281A-211

Query Match	71.2%;	Score 242.2;	DB 3;	Length 340;
Best Local Similarity	81.7%;	Pred. No. 4.1e-55;		
Matches 277; Conservative	0;	Mismatches 62;	Indels 0;	Gaps 0;

1 CTCACCCGTAACCGAAGGACATCAGGTCGAGAGGAGTCTATCAGTGTGTGATCT 60

1 CTGCACTGTCGAGAGGGGACATCAGGACAGAGGGAGAGGTCTATCAGTGTGGACCT 60

6) GGAGCCAGAGGCCCGCAGGCAATATCCCTCCATACCGGAGAGACTCATGTGGGGGCTCC 120

121 CATGTTTAA CAGCAAGGAGACCTATGTGGCTACCGCAGGTGCCCGCGCAAGCGGCTTAA 180
DB 61 GGAACCCGGAGCCCGCAAGGTAATCACCCGCCCTCACAGAGAGATCAATG1G5GCGAC 120

121 C A C T T T C A A C A G A G G A G A C C T G T G C G G A C A A C G C C G T G C G C G A A G C G G C G T T T 180
122 C A T A T T T A A C A G C A G G A A C C T A T A T A T C C A A C A G A T C C C A A C C A A C C A A C C A A 100
123 C A T A T T T A A C A G C A G G A A C C T A T A T A T C C A A C A G A T C C C A A C C A A C C A A C C A A 100

181 CACCAACAACCTTCGAAAAACAACGACCTGTAAGCTCAAGGCCACGGCCGCTACAGAGC 240

181 CACCAACAGCTTCGGAAACACTGACGCTCTACTTAAAGCCACAGCTGCTACTAGAGC 240

241 GGCGGCGCTGAAGCATTCGACCAATGCTGGTTTGCGGGAGCAGACCTGGTCGTCAATCGCAGA 300

Db 241 AGCGCGCTTAAAGATTGCACCATGCTGGTCTGGCGTGAAGACTTAGTCTTATTTCCGA 300

301 GAGCGATGGCGTGGACGACGACCGCCGAGCCCTCCAGC 339

RESULT 14

US-09-878-281A-114
; Sequence 114, Application US/09878281A

```
; Patent No. 6762024
; GENERAL INFORMATION:
```

APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
DATE OF INVENTION: and

FILE REFERENCE: 35
TITLE OF INVENTION: and therapy
CURRENT APPLICATION NUMBER: IIS/09/878. 201A

NUMBER OF SEQ ID NOS: 284

```

; NUMBER OF SEQ ID NOS: 203
;
; SOFTWARE: PatentIn version 3.1
;
; SEQ ID NO 114

```

```

/ 258 12 10 111
: LENGTH: 340
: TYPE: DNA
/

```

ORGANISM: hepatitis C virus
US-09-878-281A-114

Query Match 68.6%; Score 233.4; DB 3; Length 340;

Best Local Similarity 80.5%; Pred. No. 9e-53;
Matches 273; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

```
QY 1 CTCACCCGTAACCGAAAGGAGATCATCGAGGTCGAGGAGGTCTACAGTGTTCATCT 60
DB 1 CTCACCGGTAAGCGAAAGGATATCAGACCGAGGAGAGATCTACAGTGTTCGACCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCACGAGAGACTTATGTGGGCGGTCC 120
DB 61 GGAGCCCGAAGCCCGCAAGGTATATCCGCCCTTAACGAAAGACTTACGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGAGACTTATGTGGCTACCGCAGGTGCGCGCAAGCGGCGTCTTA 180
DB 121 CATGTACAACCTCCAGGGGGACTTATGCGGGCAACGAGGTGCGCGCAAGCGGGGTCTTA 180
QY 181 CACCAACCACTTCGGAACACACTGACCTGCTACCTCAAGGCCACGCGCTACCAAGAC 240
DB 181 CACCAACCACTTCGGAACACACTGTAACGTGTATCTCAAGGCCGTTGCGGCTACCAAGGAC 240
QY 241 GGCCGGCTGAAGATTGCAATAGTGTGCGGGAGACCTGTGCGTATCGCAGAGA 300
DB 241 CGCAGGTCTGAAGATTGCAATAGTGTGCGGGAGACCTGTGCGTATCGTCACTGCGGA 300
QY 301 GAGCGATGGCTGACGAGGACCGCCGACCTCCAGC 339
DB 301 GAGCGGCGGCTGAGAGAGATGCAAGACCTCCGAGC 339
```

RESULT 15

US-09-878-281A-205
; Sequence 205, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Inogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 205
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-205

Query Match 68.6%; Score 233.4; DB 3; Length 340;
Best Local Similarity 80.5%; Pred. No. 9e-53;
Matches 273; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

```
QY 1 CTCACCCGTAACCGAAAGGAGATCATCGAGGTCGAGGAGGTCTACAGTGTTCATCT 60
DB 1 CTCACCGGTAAGCGAAAGGATATCAGACCGAGGAGAGATCTACAGTGTTCGACCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCACGAGAGACTTATGTGGGCGGTCC 120
DB 61 GGAGCCCGAAGCCCGCAAGGTATATCCGCCCTTAACGAAAGACTTACGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGAGACTTATGTGGCTACCGCAGGTGCGCGCAAGCGGCGTCTTA 180
DB 121 CATGTACAACCTCCAGGGGGACTTATGCGGGCAACGAGGTGCGCGCAAGCGGGGTCTTA 180
QY 181 CACCAACCACTTCGGAACACACTGACCTGCTACCTCAAGGCCACGCGCTACCAAGAC 240
DB 181 CACCAACCACTTCGGAACACACTGTATCTCAAGGCCGTTGCGGCTACCAAGGAC 240
QY 241 GGCCGGCTGAAGATTGCAATAGTGTGCGGGAGACCTGTGCGTATCGCAGAGA 300
DB 241 CGCAGGTCTGAAGATTGCAATAGTGTGCGGGAGACCTGTGCGTATCGTCACTGCGGA 300
QY 301 GAGCGATGGCTGACGAGGACCGCCGACCTCCAGC 339
DB 301 GAGCGGCGGCTGAGAGAGATGCAAGACCTCCGAGC 339
```

DB 301 GAGCGGCGGCTGAGAGAGATGCAAGACCTCCGAGC 339

Search completed: January 11, 2006, 14:46:39
Job time : 101.519 Secs

Large Blank (uspto)

ANTI-SENSE: NO
US-08-836-075A-89

Query Match 99.4%; Score 338; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1e-102;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy 1 CTCAACAGTCAAGAGCGCGGATGTCAGACGAGCATGATCTACGATGCTGAATT 60
    |||
Db 1 CTCACAGTCAAGAGCGCGGATGTCAGACGAGCATGATCTACGATGCTGAATT 60
Qy 61 GGAGCCCGCAGACGAGAGCCATCATGCTTACTGACCGATTGTACTNCGTGTCC 120
    |||
Db 61 GGAGCCCGCAGACGAGAGCCATCATGCTTACTGACCGATTGTACTNCGTGTCC 120
Qy 121 CATGNTAACTTAAAGTCAGGCAATGTGATACCGTAGTGCAGAGGCCAGTGGCTCTT 180
    |||
Db 121 CATGNTAACTTAAAGTCAGGCAATGTGATACCGTAGTGCAGAGGCCAGTGGCTCTT 180
Qy 181 GACCAACATCTGCGCATCTGATCTGACTTGAAGCTCAGGGGGCATGCGAGC 240
    |||
Db 181 GACCAACATCTGCGCATCTGATCTGACTTGAAGCTCAGGGGGCATGCGAGC 240
Qy 241 TGCCGGGCTGAAGAGCTTGAATGTGTGCGGAGAGCACTTGTCTTATTTCCGA 300
    |||
Db 241 TGCCGGGCTGAAGAGCTTGAATGTGTGCGGAGAGCACTTGTCTTATTTCCGA 300
Qy 301 GAGTTGGGGGTCTCGAGAGACACTAGTGCATGCGAGCT 340
    |||
Db 301 GAGTTGGGGGTCTCGAGAGACACTAGTGCATGCGAGCT 340

```

RESULT 2

US-08-836-075A-93
Sequence 93, Application US/08836075A
Patent No. 6180768

```

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 93:
SEQUENCE CHARACTERISTICS:

```

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEITICAL: NO
ANTI-SENSE: NO
US-08-836-075A-93

Query Match 64.0%; Score 217.6; DB 3; Length 340;
Best Local Similarity 77.5%; Pred. No. 1.5e-62;
Matches 262; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

```

Qy 1 CTCAACAGTCAAGAGCGCGGATGTCAGACGAGCATGATCTACGATGCTGAATT 60
    |||
Db 1 CTCCTCGTCAAGAGCGGATGTCAGATCCGACTGAAACAGACATCTATGATGCTCCATT 60
Qy 61 GGAGCCCGCAGACGAGAGCCATCATGCTTACTGACCGATTGTACTNCGTGTCC 120
    |||
Db 61 AGATCCGGTAGACGGAAGGCATTACATCTTATGAGGGGCTGTATGCGGGGCC 120
Qy 121 CATGNTAACTTAAAGTCAGGCAATGTGATACCGTAGTGCAGAGGCCAGTGGCTCTT 180
    |||
Db 121 CATGNTAACTTAAAGTCAGGCAATGTGATACCGTAGTGCAGAGGCCAGTGGCTCTT 180
Qy 181 GACCAACATCTGCGCATCTGATCTGACTTGAAGCTCAGGGGGCATGCGAGC 240
    |||
Db 181 CACCAACATCTGCGCATCTGATCTGACTTGAAGCTCAGGGGGCATGCGAGC 240
Qy 241 TGCCGGGCTGAAGAGCTTGAATGTGTGCGGAGAGCACTTGTCTTATTTCCGA 300
    |||
Db 241 AGCRAAGCTCAAAAACCTTGACATGTGTGTGCGGAGAGCACTTGTCTTATTTCCGA 300
Qy 301 GAGTTGGGGGTCTCGAGAGACACTAGTGCATGCGAG 338
    |||
Db 301 GAGCGAGAGAGTCCCTGAGATGCGGGCCCTGCGAG 338

```

RESULT 3

US-08-836-075A-91
Sequence 91, Application US/08836075A
Patent No. 6180768

```

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

```


ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ. ID NO.: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-91

Query Match 61.2%; Score 208.2; DB 3; Length 340;
Best Local Similarity 75.2%; Pred. No. 2e-59; Indels 0; Gaps 0;
Matches 255; Conservative 2; Mismatches 82; Indels 0; Gaps 0;

QY 1 CTCACAGTCACAGAGCGCGATGTCACAGCGAGCATCATCTACAGTGTCTTAAGTT 60
DB 1 CTCGACAGTCACCGAGCGCGAGCATCCACACGACGACATCTACCATGCTGCCAACT 60
QY 61 GGAGCCCGCAGCAGCAGCAGCCATCATCTGCTTACTGACCCGATTGCTACCTGCTTC 120
DB 61 TCACCCCGGTGGCAGCAGCAGCATATCTGATCTGATGAGCGGCTGTACTGCGGAGGCGCC 120
QY 121 CATGNTAATCTTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 180
DB 121 CATGATGAATCTCCGCTGATCAATGATGATGATGATGATGATGATGATGATGATGATG 180
QY 181 GACCAACATCTGCGCAATCTCTGACTGCTTACTTGAAGTCAAGCGCGAGTCAAGCAGAGC 240
DB 181 CACCAAGAGCTTGGGAAATACCTTAACATGCTATTGAAAGCAGCAGCAGCTGTAGAGGC 240
QY 241 TCCCGGCTGAAGACTTTGACATGTTGCTTCCGAGAGCAGCTTGTCTTATTTCGGA 300
DB 241 AGCAAAAGCTCAAAAATCTATGATGATGATGATGATGATGATGATGATGATGATGATG 300
QY 301 GAGTTGGGGGTCTCGGAGAGCAGTACGCTACGCGAGC 339
DB 301 GAGTGAGGAGTCTCTGAGAGATGTTGACGCGCTCGAGC 339

RESULT 4

US-08-836-075A-57
Sequence 57, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ. ID NO.: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-57

Query Match 49.8%; Score 169.2; DB 3; Length 340;
Best Local Similarity 68.3%; Pred. No. 2.1e-46;
Matches 231; Conservative 1; Mismatches 106; Indels 0; Gaps 0;

QY 1 CTCACAGTCACAGAGCGCGATGTCACAGCGAGCATCATCTACAGTGTCTTAAGTT 60
DB 1 CTCGACAGTTCAGGAACGACATTCGTGTGAGGAATCAATCTACAGTGTCTGACTT 60
QY 61 GGAGCCCGCAGCAGCAGCAGCCATCATCTGCTTACTGACCCGATTGCTACCTGCTTC 120
DB 61 GGCCCCCGAGGCGCGCAAGGCGATTAAGTCCGTACCGAGGCGCTGTATATCGGGGGTCC 120
QY 121 CATGNTAATCTTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 180
DB 121 CTAACCAACTCAAAAAGGAGGAGAACTGCGGCTACCGTGTGCGCGCAGCGGCTCT 180
QY 181 GACCAACATCTGCGCAATCTCTGACTGCTTACTTGAAGTCAAGCGCGAGTCAAGCAGAGC 240
DB 181 GACTACAGCTGCGGTAATACCTTCAATGTTACTTGAAGCAGAGGCGGCTGTGAGC 240
QY 241 TCCCGGCTGAAGACTTTGACATGTTGCTTCCGAGAGCAGCTTGTCTTATTTCGGA 300
DB 241 TCCGAAGCTCCAGAGCTCACAATGCTGTGTGCGGAGACAGCCTTGTCTTATCTGGA 300
QY 301 GAGTTGGGGGTCTCGGAGAGCAGTACGCTACGCGAGC 338
DB 301 GAGTCRGAAGTTCAGAGAGATGCGGCGAACCTTACGAG 338

RESULT 5

US-08-836-075A-61
Sequence 61, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

```

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-61

```

```

Query Match      48.8%; Score 165.8; DB 3; Length 340;
Best Local Similarity 67.8%; Pred. No. 2.8e-45;
Matches 230; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

```

```

QY      1 CTCACAGTCACAGACGGCGATGTCCAGACGGAGCATCTACAGTGTGAATT 60
DB      1 CTCACAGTCACAGACGGCGATGTCCAGACGGAGCATCTACAGTGTGAATT 60
QY      61 GGAGCCCGAGACGAGACGCCATCATGCTTACTGACCGATTGTACTTCGGTGTCT 120
DB      61 GGAGCCCGAGACGAGACGCCATCATGCTTACTGACCGATTGTACTTCGGTGTCT 120
QY      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGCGGAGTGTCT 180
DB      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGCGGAGTGTCT 180
QY      121 CTTGACCAATTCAAAAGGGAGAACTGCGGCTATTCGAGATGCGCGAGCGGCGTCT 180
DB      121 CTTGACCAATTCAAAAGGGAGAACTGCGGCTATTCGAGATGCGCGAGCGGCGTCT 180
QY      181 GACCAACATCTCGGCAATCTCTGACTTGCTGAAGAGCTCAGGCGGATGCGAGAC 240
DB      181 GACCAACATCTCGGCAATCTCTGACTTGCTGAAGAGCTCAGGCGGATGCGAGAC 240
QY      241 TGCCTGGCTGAGAGACTTTGACATGTTGTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
DB      241 TGCCTGGCTGAGAGACTTTGACATGTTGTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
QY      301 GAGTTGGGGGTCTCGGAGACACTGATGCACTGCGAGC 339
DB      301 GAGTTGGGGGTCTCGGAGACACTGATGCACTGCGAGC 339

```

```

RESULT 6
US-08-836-075A-55
; Sequence 55, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA

```

```

ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-55

```

```

Query Match      48.2%; Score 164; DB 3; Length 340;
Best Local Similarity 67.2%; Pred. No. 1.1e-44;
Matches 227; Conservative 2; Mismatches 109; Indels 0; Gaps 0;

```

```

QY      1 CTCACAGTCACAGACGCCGATGTCCAGACGGAGCATCTACAGTGTGAATT 60
DB      1 CTCACAGTCACAGACGCCGATGTCCAGACGGAGCATCTACAGTGTGAATT 60
QY      61 GGAGCCCGAGACGAGACGCCATCATGCTTACTGACCGATTGTACTTCGGTGTCT 120
DB      61 GGAGCCCGAGACGAGACGCCATCATGCTTACTGACCGATTGTACTTCGGTGTCT 120
QY      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGCGGAGTGTCT 180
DB      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGCGGAGTGTCT 180
QY      121 CTTGACCAATTCAAAAGGGAGAACTGCGGCTATTCGAGATGCGCGAGCGGCGTCT 180
DB      121 CTTGACCAATTCAAAAGGGAGAACTGCGGCTATTCGAGATGCGCGAGCGGCGTCT 180
QY      181 GACCAACATCTCGGCAATCTCTGACTTGCTGAAGAGCTCAGGCGGATGCGAGAC 240
DB      181 GACCAACATCTCGGCAATCTCTGACTTGCTGAAGAGCTCAGGCGGATGCGAGAC 240
QY      241 TGCCTGGCTGAGAGACTTTGACATGTTGTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
DB      241 TGCCTGGCTGAGAGACTTTGACATGTTGTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
QY      301 GAGTTGGGGGTCTCGGAGACACTGATGCACTGCGAGC 338
DB      301 GAGTTGGGGGTCTCGGAGACACTGATGCACTGCGAGC 338

```

```

RESULT 7
US-08-836-075A-53
; Sequence 53, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207

```

```

CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-53

```

```

Query Match      48.0%; Score 163.2; DB 3; Length 340;
Best Local Similarity 67.1%; Pred. No. 2.1e-44;
Matches 228; Conservative 1; Mismatches 111; Indels 0; Gaps 0;

QY 1 CTCACAGTCACAGAGCGCGATGTCACAGAGCATGATCTACCGATGCTGTAAGT 60
DB 1 CTCGACAGTTACTTGAGAAATGACATCCGTCTCGAGGATCAATATACCAATGTTGACT 60
QY 61 GGAGCCCGCAGACGAGCAGCCATCATCGCTTACTGACCGATTGTACTNCGGTGCC 120
DB 61 GGCCCCCGAGGCTCGGAAGCCATAAGTCGCTCACCGAGCGGCTGTACATCGGGGGCCC 120
QY 121 CATGNTAACTCTAAAGGTCAAGCATGTGATACCGTAGTGCAGGGCCAGTGGCTCT 180
DB 121 YCTAACCAATTAAGAAAGGACAGAACTGCGGCTACCGTCCGTCCCGCCAGCGGCTGCT 180
QY 181 GACCAACATCTGGCCCAATCTGTGACTTGAAGCTCAGGGGGGAGTGCAGAGC 240
DB 181 GACTACCACTCGGCGACACCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
QY 241 TGCCGGGCTGAAGACTTTGACATGTGTCTGCGAGAGCAGCTTGTGTTATTTGGA 300
DB 241 TGCAAGAGCTCGGGAAGTGCAGCATGTGTGTGCGGGGATGACTTGTGTTATCTGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACACTAGTGCATGCGAGCT 340
DB 301 GAGTGGGGAGTCCAGAGAGACGCGGCAACTAGAGCT 340

```

```

RESULT 8
US-08-441-971-3
Sequence 3, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:

```

```

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5pt1
US-08-441-971-3

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Query Match      47.4%; Score 161; DB 3; Length 340;
Best Local Similarity 67.0%; Pred. No. 1.1e-43;
Matches 227; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1 CTCACAGTCACAGAGCGCGATGTCACAGAGCATGATCTACCGATGCTGTAAGT 60
DB 1 CTCGACAGTTACTTGAGAAATGACATCCGTCTCGAGGATCAATATACCAATGTTGACT 60
QY 61 GGAGCCCGCAGACGAGCAGCCATCATCGCTTACTGACCGATTGTACTNCGGTGCC 120
DB 61 GGCCCCCGAGGCTCGGAAGCCATAAGTCGCTCACCGAGCGGCTGTACATCGGGGGCCC 120
QY 121 CATGNTAACTCTAAAGGTCAAGCATGTGATACCGTAGTGCAGGGCCAGTGGCTCT 180
DB 121 TCTTACCAATTAAGAGGGGAGAACTGGGCTACCGAGGTGCGGGGAGACGGCTGACT 180
QY 181 GACCAACATCTGGCCCAATCTGTGACTTGAAGCTCAGGGGGGAGTGCAGAGC 240
DB 181 GACTACCACTCGGCGACACCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
QY 241 TGCCGGGCTGAAGACTTTGACATGTGTCTGCGAGAGCAGCTTGTGTTATTTGGA 300
DB 241 CGCAGAGGCTCGGGAAGTGCACATGCTGTGTGTGAGAGCACTTGTGTTATCTGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACACTAGTGCATGCGAGC 339
DB 301 GAGTGGGGGCTCCAGAGAGACGCGGCAACTAGAGC 339

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QY 1 CTCAACGTACACGACGGGATGTCAGACGGACATCATCAACAGTCTTAAGTT 60
Db 1 CTTCACGTACTCGAAGGGGATATCCGTACGGAGGACGCAATCTTACATTTTGACCT 60
QY 61 GGAACCGGACGACGACACCATCATACGTTACTGACCGATTGTACTCTGCTGATCC 120

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/ INDIVIDUAL ISOLATE: ns5p1
US-08-442-144A-3

Query Match      47.4%; Score 161; DB 3; Length 340;
Best Local Similarity 67.0%; Pred. No. 1,16-43;
Matches 227; Conservative 0; Mismatches 112; Indels 0; Gaps 0

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-91

Perfect score: 340
Sequence: 1 ctgcagcagtcacgcagcgcg.....atgttcagccctcgagca 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	339.2	99.8	340	US-08-836-075A-91	Sequence 91, Appl
2	250.8	73.8	340	US-08-836-075A-93	Sequence 93, Appl
3	208.2	61.2	340	US-08-836-075A-89	Sequence 89, Appl
4	178.8	52.6	340	US-08-836-075A-57	Sequence 57, Appl
5	177.2	52.1	340	US-08-836-075A-55	Sequence 55, Appl
6	176.6	51.9	340	US-08-836-075A-95	Sequence 95, Appl
7	175	51.5	340	US-08-836-075A-53	Sequence 53, Appl
8	167.4	49.2	340	US-08-836-075A-61	Sequence 61, Appl
9	162.6	47.8	340	US-08-441-971-2	Sequence 2, Appl
10	162.6	47.8	340	US-08-441-971-3	Sequence 3, Appl
11	162.6	47.8	340	US-08-221-653-2	Sequence 2, Appl
12	162.6	47.8	340	US-08-221-653-3	Sequence 3, Appl
13	162.6	47.8	340	US-08-442-144A-2	Sequence 2, Appl
14	162.6	47.8	340	US-08-442-144A-3	Sequence 3, Appl
15	162.6	47.8	340	US-08-441-970-2	Sequence 2, Appl
16	162.6	47.8	340	US-08-441-970-3	Sequence 3, Appl
17	162.6	47.8	9413	US-09-827-688-6	Sequence 6, Appl
18	162.6	47.8	9595	US-09-014-416-4	Sequence 4, Appl
19	161	47.4	340	US-08-441-971-4	Sequence 4, Appl
20	161	47.4	340	US-08-441-971-6	Sequence 6, Appl
21	161	47.4	340	US-08-221-653-4	Sequence 4, Appl
22	161	47.4	340	US-08-221-653-6	Sequence 6, Appl
23	161	47.4	340	US-08-221-653-16	Sequence 16, Appl

25	161	47.4	340	US-08-442-144A-4	Sequence 4, Appl
26	161	47.4	340	US-08-442-144A-6	Sequence 6, Appl
27	161	47.4	340	US-08-442-144A-16	Sequence 16, Appl
28	161	47.4	340	US-08-441-970-4	Sequence 4, Appl
29	161	47.4	340	US-08-441-970-6	Sequence 6, Appl
30	161	47.4	340	US-08-441-970-16	Sequence 16, Appl
31	161	47.4	1710	US-09-208-140-3	Sequence 3, Appl
32	161	47.4	9599	US-09-014-416-2	Sequence 2, Appl
33	161	47.4	9599	US-09-014-416-6	Sequence 6, Appl
34	161	47.4	9646	US-08-811-566-1	Sequence 1, Appl
35	161	47.4	9646	US-09-034-756-1	Sequence 1, Appl
36	161	47.4	10803	US-10-259-275-17	Sequence 17, Appl
37	161	47.4	12980	US-08-811-566-5	Sequence 5, Appl
38	161	47.4	12980	US-09-034-756-5	Sequence 5, Appl
39	160	47.1	1773	US-09-720-095A-1	Sequence 1, Appl
40	159.4	46.9	340	US-08-441-971-5	Sequence 5, Appl
41	159.4	46.9	340	US-08-221-653-5	Sequence 5, Appl
42	159.4	46.9	340	US-08-442-144A-5	Sequence 5, Appl
43	159.4	46.9	340	US-08-441-970-5	Sequence 5, Appl
44	159.4	46.9	9365	US-09-827-688-7	Sequence 7, Appl
45	158.6	46.6	340	US-08-836-075A-63	Sequence 63, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-91
; Sequence 91, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 91:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-91

Query Match 99.8%; Score 339.2; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 2.1e-99;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCCAGCGCGGATCCRCACCGAGACGACATCTACCAATGCTGCCAACT 60
   |||
DB 1 CTCGACAGTCCAGCGCGGATCCRCACCGAGACGACATCTACCAATGCTGCCAACT 60
QY 61 TGACCCGGTGCGACGCAAGCTATTACATCTGTGACTGAGCGGCTGTACTGCGGAGGCC 120
   |||
DB 61 TGACCCGGTGCGACGCAAGCTATTACATCTGTGACTGAGCGGCTGTACTGCGGAGGCC 120
QY 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGACGACGAGCGGTGT 180
   |||
DB 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGACGACGAGCGGTGT 180
QY 181 CACGACGAGCTTGCGCAATACCTTAACATGCTATTGAAAGCAAGACGCGGTAGAGGC 240
   |||
DB 181 CACGACGAGCTTGCGCAATACCTTAACATGCTATTGAAAGCAAGACGCGGTAGAGGC 240
QY 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGAGACGATCTAGTGTATCGCGGA 300
   |||
DB 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGAGACGATCTAGTGTATCGCGGA 300
QY 301 GAGTGAGAGATCTCTGAGAGATGTTGACCCCTCGGAGCA 340
   |||
DB 301 GAGTGAGAGATCTCTGAGAGATGTTGACCCCTCGGAGCA 340

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RESULT 2

US-08-836-075A-93
Sequence 93, Application US/08836075A
Patent No. 6180768

```

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 93:
SEQUENCE CHARACTERISTICS:

```

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-93

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 6.6e-71;
Matches 282; Conservative 2; Mismatches 54; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCCAGCGCGGATCCRCACCGAGACGACATCTACCAATGCTGCCAACT 60
   |||
DB 1 CTCCTCCGTCAAGGAGGCTGACATCCGACATGAAACAGACATCTATGATGCTGCAATT 60
QY 61 TGACCCGGTGCGACGCAAGCTATTACATCTGTGACTGAGCGGCTGTACTGCGGAGGCC 120
   |||
DB 61 AGATCCGGTACACGGAAGCATTAACATCTTACTGAGCGGCTGTACTGCGGAGGCC 120
QY 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGACGACGAGCGGTGT 180
   |||
DB 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGACGACGAGCGGTGT 180
QY 181 CACGACGAGCTTGCGCAATACCTTAACATGCTATTGAAAGCAAGACGCGGTAGAGGC 240
   |||
DB 181 CACGACGAGCTTGCGCAATACCTTAACATGCTATTGAAAGCAAGACGCGGTAGAGGC 240
QY 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGAGACGATCTAGTGTATCGCGGA 300
   |||
DB 241 AGCRAAGCTCAAAAACTTGAATGTTGTCTGCGGAGACCACTTAGTGTATGCTGA 300
QY 301 GAGTGAGAGATCTCTGAGAGATGTTGACCCCTCGGAG 338
   |||
DB 301 GAGCGGAGAGATCTCTGAGAGATGCGGGCCCTGCGAG 338

```

RESULT 3

US-08-836-075A-89
Sequence 89, Application US/08836075A
Patent No. 6180768

```

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

```

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO

US-08-836-075A-89

Query Match 61.2%; Score 208.2; DB 3; Length 340;
Best Local Similarity 75.2%; Pred. No. 3.5e-57;
Matches 255; Conservative 2; Mismatches 82; Indels 0; Gaps 0;

QY 1 CTCGACAGTCAACCGAGCGGACATCCRCACCGAGCAGCATCTTACCAATGCTGCCACT 60
DB 1 CTCACAGTCAACAGAGCGGATGTCAGAGAGCATGACATCTACCAAGTCTGTAGTT 60
QY 61 TGACCCGGTGGCAGCGCAAGGCTATTACATCTCTGACTGAGCGGCTGTACTGCGGAGGC 120
DB 61 GGAGCCCGCAGACGAGCAGCATCATCTGCTTACTGACCGATTGTATCTNCGGTGCTC 120
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
DB 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
DB 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
QY 181 CACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGCG 240
DB 181 GACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCTAGGCGGCTGTAGGCG 240
QY 241 AGCAAGCTCAAAAATATGATGATTTAGTCTGCGGAGAGCATCTAGTGTATCGCGGA 300
DB 241 TGCCGGGCTGAAGAGCTTGAATGATGTTGCTGCGGAGAGCATCTGTGTTATTTGGA 300
QY 301 GAGTGGAGAGTCTCTGAGAGATTTGACCCCTGCGAGC 339
DB 301 GAGTGGGAGTCTCTGAGAGACATGTCACCTGCGAGC 339

RESULT 4

US-08-836-075A-57
Sequence 57, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO

US-08-836-075A-57

Query Match 52.6%; Score 178.8; DB 3; Length 340;
Best Local Similarity 70.1%; Pred. No. 1.1e-47;
Matches 237; Conservative 2; Mismatches 99; Indels 0; Gaps 0;

QY 1 CTCGACAGTCAACCGAGCGGACATCCRCACCGAGCAGCATCTTACCAATGCTGCCACT 60
DB 1 CTCGACAGTCAACAGAGCGGATGTCAGAGAGCATGACATCTTACCAAGTCTGTAGTT 60
QY 61 TGACCCGGTGGCAGCGCAAGGCTATTACATCTCTGACTGAGCGGCTGTACTGCGGAGGC 120
DB 61 GGAGCCCGCAGACGAGCAGCATCATCTGCTTACTGACCGATTGTATCTNCGGTGCTC 120
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
DB 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
DB 121 CATGATGAATCCCGTGTCAATCATGTGATACCTAGTGGCCGAGCGGCTGT 180
QY 181 CACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGCG 240
DB 181 GACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCTAGGCGGCTGTAGGCG 240
QY 241 AGCAAGCTCAAAAATATGATGATTTAGTCTGCGGAGAGCATCTAGTGTATCGCGGA 300
DB 241 TGCCGGGCTGAAGAGCTTGAATGATGTTGCTGCGGAGAGCATCTGTGTTATTTGGA 300
QY 301 GAGTGGAGAGTCTCTGAGAGATTTGACCCCTGCGAG 338
DB 301 GAGTGGGAGTCTCTGAGAGATTTGACCCCTGCGAG 338

RESULT 5

US-08-836-075A-55
Sequence 55, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-55

Query Match 52.1%; Score 177.2; DB 3; Length 340;
Best Local Similarity 69.8%; Pred. No. 3.5e-47;
Matches 236; Conservative 2; Mismatches 100; Indels 0; Gaps 0;

QY 1 CTGCAGATGACGAGCGGACATCCRACCGAGCAGCATCTACCAATGCTGCCAACT 60
DB 1 CTGCAGATGACGAGCGGACATCCRACCGAGCAGCATCTACCAATGCTGCCAACT 60
QY 61 TGACCCGCTGCGACGAGGCTATTACATCTGACTGAGCGGCTGATCGCGMGGCCC 120
DB 61 GGGCCCGAGGCGCGGAGGCGCATTAAGTGTCTACCGAGCGGCTGATCGCGMGGCCC 120
QY 121 CATGATGAATCCCGTGTGTAATCATGATGATACCGTATGCTGCGGAGCGCTGCT 180
DB 121 CATGATGAATCCCGTGTGTAATCATGATGATACCGTATGCTGCGGAGCGCTGCT 180
QY 121 CCTAACCAATTCAGAGGCGGAGCACTGCGGCTATCGTGTGCTGCGGCTAGCGGCTGCT 180
DB 181 CACCAAGAGCTGAGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGCG 240
QY 181 GACCAAGAGCTGAGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGCG 240
DB 181 GACCAAGAGCTGAGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGCG 240
QY 241 AGCAAGCTCAAAACTATGATGATGCTGCGGAGCAGATCTAGTCTTATCGCGAG 300
DB 241 TGCAAGCTCAAGAGCTGCGAGATGCTGCGGAGCAGATCTAGTCTTATCGTGA 300
QY 301 GAGTGAAGAGTCTCTGAGGATGTTGACGCCCTGCGAG 338
DB 301 GAGCGCGGAGTGCAGAGGAGCGCGGCACTTACGAG 338

RESULT 6
US-08-836-075A-95
Sequence 95, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA

ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 95:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-95

Query Match 51.9%; Score 176.6; DB 3; Length 340;
Best Local Similarity 69.8%; Pred. No. 5.4e-47;
Matches 236; Conservative 1; Mismatches 101; Indels 0; Gaps 0;

QY 2 TGACAGTCAACGAGCGGACATCCRACCGAGCAGCATCTACCAATGCTGCCAACT 61
DB 2 TCCACAGTCAACGAGCGGACATCCRACCGAGCAGCATCTACCAATGCTGCCAACT 61
QY 62 GACCCGCTGCGACGAGGCTATTACATCTGACTGAGCGGCTGATCGCGMGGCCC 121
DB 62 GACCCGCTGCGACGAGGCTATTACATCTGACTGAGCGGCTGATCGCGMGGCCC 121
QY 122 ATGATGAATCCCGTGTGTAATCATGATGATACCGTATGCTGCGGAGCGCTGCT 181
DB 122 ATGATGAATCCCGTGTGTAATCATGATGATACCGTATGCTGCGGAGCGCTGCT 181
QY 182 ACCAGAGCTGAGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGCG 241
DB 182 CCAAGAGCTGAGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGCG 241
QY 242 GCAAAAGCTCAAAACTATGATGATGCTGCGGAGCAGATCTAGTCTTATCGCGAG 301
DB 242 GCGGCTTACAGATTATGATGATGCTGCGGAGCAGATCTAGTCTTATCGTGA 301
QY 302 AGTGAAGAGTCTCTGAGGATGTTGACGCCCTGCGAGC 339
DB 302 AGTGTGAGAGTCAAGAGGATGATGCTTACCTGCGAGC 339

RESULT 7

US-08-836-075A-53
Sequence 53, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207

```

CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-53

Query Match      51.5%; Score 175; DB 3; Length 340;
Best Local Similarity 69.3%; Pred. No. 1.8e-46;
Matches 235; Conservative 2; Mismatches 102; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGAGCGGACATCCACCGAGACGACATCTCAATGCTGCCAAT 60
DB 1 CTCGACAGTCACCGAGCGGACATCCACCGAGACGACATCTCAATGCTGCCAAT 60
QY 61 TCACCCGCTGGGACGCGAAGGCTATTACATCTCTGACTGACGCGGCTGTA 120
DB 61 TCACCCGCTGGGACGCGAAGGCTATTACATCTCTGACTGACGCGGCTGTA 120
QY 61 GGGCCCGGAGGCTCGGAAGGCAAGTCGCTCACCGGAGCGGCTGTATCATG 120
DB 61 GGGCCCGGAGGCTCGGAAGGCAAGTCGCTCACCGGAGCGGCTGTATCATG 120
QY 121 CATGATGAATCTCCCGTGTCAATCATGTGGAATCCGTAGGTGCCAGGCG 180
DB 121 CATGATGAATCTCCCGTGTCAATCATGTGGAATCCGTAGGTGCCAGGCG 180
QY 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGTCCGCGCCAGCG 180
DB 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGTCCGCGCCAGCG 180
QY 181 CACCAAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCTGA 240
DB 181 CACCAAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCTGA 240
QY 181 GACTACCACTGCGGCAACACCTTGACATGCTATTGAAAGCAAGACGCT 240
DB 181 GACTACCACTGCGGCAACACCTTGACATGCTATTGAAAGCAAGACGCT 240
QY 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTTC 300
DB 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTTC 300
QY 241 TGCAAGCTCCGGGAGCTGACATGCTGTGTGCGGAGATGACCTTGTGTT 300
DB 241 TGCAAGCTCCGGGAGCTGACATGCTGTGTGCGGAGATGACCTTGTGTT 300
QY 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339
DB 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339
QY 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339
DB 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339

RESULT 8
US-08-836-075A-61
Sequence 61, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
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APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-61

Query Match      49.2%; Score 167.4; DB 3; Length 340;
Best Local Similarity 68.1%; Pred. No. 5e-44;
Matches 231; Conservative 1; Mismatches 107; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGAGCGGACATCCACCGAGACGACATCTCAATGCTGCCAAT 60
DB 1 CTCGACAGTCACCGAGCGGACATCCACCGAGACGACATCTCAATGCTGCCAAT 60
QY 61 TCACCCGCTGGGACGCGAAGGCTATTACATCTCTGACTGACGCGGCTGTA 120
DB 61 TCACCCGCTGGGACGCGAAGGCTATTACATCTCTGACTGACGCGGCTGTA 120
QY 61 GGGCCCGGAGGCTCGGAAGGCAAGTCGCTCACCGGAGCGGCTGTATCATG 120
DB 61 GGGCCCGGAGGCTCGGAAGGCAAGTCGCTCACCGGAGCGGCTGTATCATG 120
QY 121 CATGATGAATCTCCCGTGTCAATCATGTGGAATCCGTAGGTGCCAGGCG 180
DB 121 CATGATGAATCTCCCGTGTCAATCATGTGGAATCCGTAGGTGCCAGGCG 180
QY 121 YCTAACCAATTCAAAAGGAGAACTGCGGCTATCGCAGATGCGGCTGCT 180
DB 121 YCTAACCAATTCAAAAGGAGAACTGCGGCTATCGCAGATGCGGCTGCT 180
QY 181 CACCAAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCTGA 240
DB 181 CACCAAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCTGA 240
QY 181 GACTACCACTGCGGCAACACCTTGACATGCTATTGAAAGCAAGACGCT 240
DB 181 GACTACCACTGCGGCAACACCTTGACATGCTATTGAAAGCAAGACGCT 240
QY 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTTC 300
DB 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTTC 300
QY 241 TGCAAGCTCCGGGAGCTGACATGCTGTGTGCGGAGATGACCTTGTGTT 300
DB 241 TGCAAGCTCCGGGAGCTGACATGCTGTGTGCGGAGATGACCTTGTGTT 300
QY 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339
DB 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339
QY 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339
DB 301 GAGTGGAGAGTCTCTGAGAGATGTTGACGCCCTTGGAGC 339
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SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5pt1
US-08-442-144A-3

Query Match 47.8%; Score 162.6; DB 3; Length 340;
Best Local Similarity 67.3%; Pred. No. 1.8e-42;
Matches 228; Conservative 1; Mismatches 110; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGGCGGACATCCRCACCGAGACGACATCTACCATGTGCGCACT 60
DB 1 CTCGACAGTCAGTGAAGGAGACATCCGTAAGAGAGGAGGAACTTCACCATGTGTGATCT 60
QY 61 TGACCCGGTGGCAGCAGGCTATTACATCTCTGACTGAGCGGCTGTACTCGCGWGGGCC 120
DB 61 GGAACCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTAGTTGGGGGCC 120
QY 121 CATGATGAATCTCCGTGTCAATCATGTGATACCGTMACTGCCAGCCAGTGGCGTGT 180
DB 121 TCTTACCAATTCAAGGGGGAGAACTGCGGCTACCGCAGGTGCCGGCGAGCGGCTACT 180
QY 181 CACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGACAGACGCTGTAGGGC 240
DB 181 GACCACTAGCTGTGTGAATACCTCACTTGTACATCAAGGCCCGGCGAGCTGTGAGGC 240
QY 241 AGCAAACTCAAAAATGATGATGTAGTCTGCGAGAGCATCTAGTCTGTTATCGCGGA 300
DB 241 CGCAGGGCTCCGAGACTGACCATCTCTGTGTGTGTGACGACTTGTCGTTATCTGTGA 300
QY 301 GAGTGAAGAGTCTCTGAGAGATGTGACGCCCTGCGAGC 339
DB 301 GAGTGGGGGGTCCAGAGAGAGCGCGGAGCTTGAGAGC 339

RESULT 15

US-08-441-970-2
Sequence 2, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-441-970-2

Query Match 47.8%; Score 162.6; DB 3; Length 340;
Best Local Similarity 67.3%; Pred. No. 1.8e-42;
Matches 228; Conservative 1; Mismatches 110; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGGCGGACATCCRCACCGAGACGACATCTACCATGTGCGCACT 60
DB 1 CTCGACAGTCAGTGAAGGAGACATCCGTAAGAGAGGAGGAACTTCACCATGTGTGATCT 60
QY 61 TGACCCGGTGGCAGCAGGCTATTACATCTCTGACTGAGCGGCTGTACTCGCGWGGGCC 120
DB 61 GGAACCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTAGTTGGGGGCC 120
QY 121 CATGATGAATCTCCGTGTCAATCATGTGATACCGTMACTGCCAGCCAGTGGCGTGT 180
DB 121 TCTTACCAATTCAAGGGGGAGAACTGCGGCTACCGCAGGTGCCGGCGAGCGGCTACT 180
QY 181 CACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGACAGACGCTGTAGGGC 240
DB 181 GACCACTAGCTGTGTGAATACCTCACTTGTACATCAAGGCCCGGCGAGCTGTGAGGC 240
QY 241 AGCAAACTCAAAAATGATGATGTAGTCTGCGAGAGCATCTAGTCTGTTATCGCGGA 300
DB 241 CGCAGGGCTCCAGAGACTGACCATCTGTGTGTGTGACGACTTGTCGTTATCTGTGA 300
QY 301 GAGTGAAGAGTCTCTGAGAGATGTGACGCCCTGCGAGC 339
DB 301 AAGTGGGGGGTCCAGAGAGAGCGCGGAGCTTGAGAGC 339

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Job time : 100.519 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-93

Perfect score: 340
Sequence: 1 cccctccgcagcagcagcgtg.....atcgccggggccctgcgagtc 340

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/prodata/1/ina/5 COMB.seq: *
3: /cgn2_6/prodata/1/ina/6A COMB.seq: *
4: /cgn2_6/prodata/1/ina/6B COMB.seq: *
5: /cgn2_6/prodata/1/ina/H COMB.seq: *
6: /cgn2_6/prodata/1/ina/PCTUS COMB.seq: *
7: /cgn2_6/prodata/1/ina/PP COMB.seq: *
8: /cgn2_6/prodata/1/ina/RE COMB.seq: *
9: /cgn2_6/prodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	339.6	99.9	340	3	US-08-836-075A-93
2	250.8	73.8	340	3	US-08-836-075A-91
3	217.6	64.0	340	3	US-08-836-075A-89
4	187.6	55.2	340	3	US-08-836-075A-95
5	172.8	50.8	340	3	US-08-836-075A-55
6	166.8	49.1	9413	3	US-09-827-688-6
7	166.4	48.9	340	3	US-08-836-075A-57
8	166.4	48.9	340	3	US-08-836-075A-85
9	165.6	48.7	340	3	US-08-836-075A-61
10	165.6	48.7	340	3	US-08-836-075A-99
11	165.6	48.7	1782	3	US-09-597-877-11
12	165.2	48.6	340	3	US-08-441-971-11
13	165.2	48.6	340	3	US-08-221-653-11
14	165.2	48.6	340	3	US-08-442-144A-11
15	165.2	48.6	340	3	US-08-441-970-11
16	165.2	48.6	340	3	US-09-878-281A-114
17	165.2	48.6	340	3	US-09-878-281A-205
18	163.6	48.1	340	3	US-08-441-971-8
19	163.6	48.1	340	3	US-08-441-971-20
20	163.6	48.1	340	3	US-08-221-653-8
21	163.6	48.1	340	3	US-08-221-653-20
22	163.6	48.1	340	3	US-08-442-144A-8
23	163.6	48.1	340	3	US-08-442-144A-20
24	163.6	48.1	340	3	US-08-441-970-8

25	163.6	48.1	340	3	US-08-441-970-20	Sequence 20, Appl
26	163.6	48.1	340	3	US-09-878-281A-207	Sequence 207, App
27	162.4	47.8	1773	3	US-09-194-949A-14	Sequence 14, Appl
28	162	47.6	340	3	US-08-441-971-12	Sequence 12, Appl
29	162	47.6	340	3	US-08-221-653-11	Sequence 12, Appl
30	162	47.6	340	3	US-08-442-144A-12	Sequence 12, Appl
31	162	47.6	340	3	US-08-441-970-12	Sequence 12, Appl
32	161.2	47.4	340	3	US-08-836-075A-53	Sequence 53, Appl
33	161	47.4	340	3	US-08-836-075A-83	Sequence 83, Appl
34	160.4	47.2	340	3	US-08-441-971-2	Sequence 2, Appl
35	160.4	47.2	340	3	US-08-221-653-2	Sequence 2, Appl
36	160.4	47.2	340	3	US-08-442-144A-2	Sequence 2, Appl
37	160.4	47.2	340	3	US-08-441-970-2	Sequence 2, Appl
38	160.4	47.2	6189	3	US-10-259-275-41	Sequence 41, Appl
39	160.4	47.2	7989	3	US-09-539-601-10	Sequence 10, Appl
40	160.4	47.2	7992	3	US-10-005-469-1	Sequence 1, Appl
41	160.4	47.2	7992	3	US-10-005-469-2	Sequence 2, Appl
42	160.4	47.2	7992	3	US-10-005-469-4	Sequence 4, Appl
43	160.4	47.2	7992	3	US-10-005-469-5	Sequence 5, Appl
44	160.4	47.2	7992	3	US-10-005-469-6	Sequence 6, Appl
45	160.4	47.2	7995	3	US-10-005-469-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-93
; Sequence 93, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTEENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 93:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-93

Query Match 99.9%; Score 339.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 9,5e-97;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCCTCCGTCACGAGCGTGTACATCCGCACTGAACACGACATCTATCAGNGTCCCAATT 60
   |||
DB 1 CTCCTCCGTCACGAGCGTGTACATCCGCACTGAACACGACATCTATCAGNGTCCCAATT 60
   |||
QY 61 AGATCCGGTAGACACGAGAAAGCCATTACATCTCTTACTGAGCGGCTTACTGCGGCGGCC 120
   |||
DB 61 AGATCCGGTAGACACGAGAAAGCCATTACATCTCTTACTGAGCGGCTTACTGCGGCGGCC 120
   |||
QY 121 CATGTCAACTCTCGAGGTGATGATGTGGTACCCGAGGTGCGGGCTAGTGTCTT 180
   |||
DB 121 CATGTCAACTCTCGAGGTGATGATGTGGTACCCGAGGTGCGGGCTAGTGTCTT 180
   |||
QY 181 CACCAAGAGCTTGGGCAACACATGACATGCTACCTGAAGGCTCAGCGGCTTGTAGGGC 240
   |||
DB 181 CACCAAGAGCTTGGGCAACACATGACATGCTACCTGAAGGCTCAGCGGCTTGTAGGGC 240
   |||
QY 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGACCTAGTGTATTGCTGA 300
   |||
DB 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGACCTAGTGTATTGCTGA 300
   |||
QY 301 GAGCGAGAGTCCCTGAGGATGCCGGGCGCTTGCAGTC 340
   |||
DB 301 GAGCGAGAGTCCCTGAGGATGCCGGGCGCTTGCAGTC 340
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RESULT 2

US-08-836-075A-91
Sequence 91, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESSES:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 91:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-91

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 7.1e-69;
Matches 282; Conservative 2; Mismatches 54; Indels 0; Gaps 0;

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QY 1 CTCCTCCGTCACGAGCGTGTACATCCGCACTGAACACGACATCTATCAGNGTCCCAATT 60
   |||
DB 1 CTCGACAGTCACGAGCGGAGACATCCRCACGAGACGACGACATCTACATAGTGTCCAACT 60
   |||
QY 61 AGATCCGGTAGACACGAGAAAGCCATTACATCTCTTACTGAGCGGCTGTACTGCGGCGGCC 120
   |||
DB 61 TGACCCGGTAGACACGAGAAAGCCATTACATCTCTTACTGAGCGGCTGTACTGCGGCGGCC 120
   |||
QY 121 CATGTCAACTCTCGAGGTGATGATGTGGTACCCGAGGTGCGGGCTAGTGTCTT 180
   |||
DB 121 CATGTCAACTCTCGAGGTGATGATGTGGTACCCGAGGTGCGGGCTAGTGTCTT 180
   |||
QY 181 CACCAAGAGCTTGGGCAACACATGACATGCTACCTGAAGGCTCAGCGGCTTGTAGGGC 240
   |||
DB 181 CACCAAGAGCTTGGGCAACACATGACATGCTACCTGAAGGCTCAGCGGCTTGTAGGGC 240
   |||
QY 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGACCTAGTGTATTGCTGA 300
   |||
DB 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGACCTAGTGTATTGCTGA 300
   |||
QY 301 GAGCGAGAGTCCCTGAGGATGCCGGGCGCTTGCAGTC 338
   |||
DB 301 GAGTGAAGAGTCTCTGAGGATGTTGACGCCCTTGCAGTC 338
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RESULT 3

US-08-836-075A-89
Sequence 89, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESSES:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 89:

SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-89

Query Match 64.0%; Score 217.6; DB 3; Length 340;
 Best Local Similarity 77.5%; Pred. No. 1.9e-58;
 Matches 262; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGCGTGAACATCCGACATCGACATCTATCAGTGTGCCAATT 60
 DB 1 CTCACAGTCACAGAGCGGAGTGTCCAGACGAGCATGACATCTACCACTGCTGTAACTT 60
 QY 61 AGATCCGATGACACGAGAAACCATTAATCTCTTACTGAGCGGCTGTACTGCGGCGCCC 120
 DB 61 GAGAGCCGACGACGAGACCATCATCGCTTACTGACCGATTGTACTCTGCGGTGCTCC 120
 QY 121 CATGTACAACTCTCGAGTCTCATGTGGTACCCGAGAGTCCGCGGTAGTGTCTT 180
 DB 121 CATGTAACTCTTAAGGTCTAGGTCATGTGATACCTGTAGTCAAGGSCCATGTGCTCTT 180
 QY 181 GACCAACACTTGGGACACCATCATGCTACTGAAAGGCTCAGGCGGCTTGTAGGCG 240
 DB 181 GACCAACACTCTGGCCAACTCTGACTTGTCTTAAAGCTCAGGCGGCAATGCAAGAC 240
 QY 241 AGCRAAGCTCAAAAATTGTGACATGTGTCTGCGGAGACGACTAGTGTATTGCTGA 300
 DB 241 TCCCGGGCTGAAGAGACTTGTGACATGTGTGCTGCGGAGACGACTGTGTTATTTCGGA 300
 QY 301 GAGCGGAGAGTCCCTGAGAGATCCGCGGCGCTTGCAG 338
 DB 301 GAGTTGGGGGTCTCGAGAGACATGATGCACTGCGAG 338

RESULT 4

US-08-836-075A-95
 Sequence 95, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 95:

SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-95

Query Match 55.2%; Score 187.6; DB 3; Length 340;
 Best Local Similarity 72.0%; Pred. No. 4.9e-49;
 Matches 244; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 2 TCCTCCGTCACGAGCGTGAACATCCGACATCGACATCTATCAGTGTGCCAATT 61
 DB 2 TCACAGTCACAGAGCGGAGTGTCCAGACGAGCATGACATCTACCACTGCTGTAACTT 61
 QY 62 GATCCGATGACACGAGAAACCATTAATCTCTTACTGAGCGGCTGTACTGCGGCGCCC 121
 DB 62 GACCAAGAGCGCGGAAACCATTAAGTCTCTACTGAGAGGCTGTATGTGCGGCGGCTT 121
 QY 122 ATGTCAACTCTCGAGTCTCATGTGGTACCCGAGAGTCCGCGGTAGTGTCTT 181
 DB 122 ATGTCAACTCTCAAGAGGCTCACTGTGTCAAGCGGATGCGGAGGAGGATGCTC 181
 QY 182 ACCAAGCTTGGGACACCATCATGCTACTGAAAGCTCAGGCGGCTTGTAGGCA 241
 DB 182 CCCAAGCATGTGGTACCATCATGCTCTTCTGAAAGGCAACCGCGCTTGCAGACA 241
 QY 242 GCGAGCTCAAAAATTGTGACATGTGTCTGCGGAGACGACTAGTGTATTGCTGAG 301
 DB 242 GCCGCTTAAAGATTAATGATGTGTGCTGCGGAGACGATTGTGTTGTAATGAG 301
 QY 302 AGCGAGAGTCCCTGAGAGATCCGCGGCGCTTGCAGATC 340
 DB 302 AGTGTGAGATCAACGAGATATCGCTAATCCTGCGAGCC 340

RESULT 5

US-08-836-075A-55
 Sequence 55, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA: PCT/EP95/04155
APPLICATION NUMBER: 23 Oct 1995
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA: EP 95870076.7
APPLICATION NUMBER: 28 Jun 1995
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-55

Query Match 50.8%; Score 172.8; DB 3; Length 340;
Best Local Similarity 68.8%; Pred. No. 2.2e-44;
Matches 224; Conservative 2; Mismatches 104; Indels 0; Gaps 0;

QY 1 CTCCTCCGTACGAGCGTGAATCCGCTGCTGAGCAACGACATATACAGTGTGCCAATT 60
DB 1 CTCGACGATTAAGAGAACGACATCCGTACCGAGATCAATATCAATGTGTGACTT 60
QY 61 AGATCCGCTAGCAGCAAGCAATTAATCTCTTACTGAGCGGCTGACTGCGCGCC 120
DB 61 GGGCCCTGAGGCGCCGAGGCAATTAAGTGTCTCACCGAGCGGCTGTAAGTGTGGGGCC 120
QY 121 CATGTACAATCTCGAGGTCAATGTGGGTACCGGAGTGTGGGTGTGTCTT 180
DB 121 CCTAACCAATTCAAGGGGCAAGTGGCGCTATCTGCTGTGCGCTAGCGCGCTGCT 180
QY 181 CACCAAGCTTGGGCAACCAATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 181 GACCAACGCTGGGCAACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 241 AGCRAAGCTCAAAAATTGACATGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 241 TGCAAAGCTCCAGACTGCAAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 GAGCGGAGGAGTCCCTGAGGATCCCGGGGCTTGCAGATC 340
DB 301 GAGCGGAGGAGTCCAGAGGAGCGGGGCACTAAGCAGATC 340

RESULT 6
US-09-827-688-6
Sequence 6, Application US/09827688
Patent No. 6821955
GENERAL INFORMATION:
APPLICANT: ORSON, FRANK
APPLICANT: KINSEY, BERNA
APPLICANT: BHOGAL, BALBIR
TITLE OF INVENTION: MACROAGGREGATED PROTEIN CONJUGATES AS ORAL GENETIC IMMUNIZATION
FILE REFERENCE: P01949051/10004014
CURRENT APPLICATION NUMBER: US/09/827,688
FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: 60/195,680
PRIOR FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn version 3.0

SEQ ID NO 6
LENGTH: 9413
TYPE: DNA
ORGANISM: HEPATITIS C
US-09-827-688-6

Query Match 49.1%; Score 166.8; DB 3; Length 9413;
Best Local Similarity 67.9%; Pred. No. 5.8e-42;
Matches 231; Conservative 1; Mismatches 108; Indels 0; Gaps 0;

QY 1 CTCCTCCGTACGAGCGTGAATCCGCTGCTGAGCAACGACATATACAGTGTGCCAATT 60
DB 8261 CTCGACGATTAAGAGAACGACATCCGTACCGAGATCAATATCAATGTGTGACTT 8320
QY 61 AGATCCGCTAGCAGCAAGCAATTAATCTCTTACTGAGCGGCTGACTGCGCGCC 120
DB 8321 GGGCCCTGAGGCGCCGAGGCAATTAAGTGTCTCACCGAGCGGCTTATGTGCGGGCTC 8380
QY 121 CATGTACAATCTCGAGGTCAATGTGGGTACCGAGTGTGGGCTGAGTGTGTCTT 180
DB 8381 CCTGACTAATTCGAGGGGCAAGACTGGCGTTATGCGCGGTGCGCGCAAGTGGGCTGCT 8440
QY 181 CACCAAGCTTGGGCAACCAATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 8441 GACGACTAGCTGGGCAACCACTTCAATGTACTTGAAGGCACTGCGGCTGTGAGC 8500
QY 241 AGCRAAGCTCAAAAATTGACATGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 8501 TGCAAAGCTCCAGAGTGCAGATCTGTGACGAGAAACGACTTGTGCTGCTGCTG 8560
QY 301 GAGCGGAGGAGTCCCTGAGGATCCCGGGGCTTGCAGATC 340
DB 8561 GAGTGGGGAACCCAGAGGAGTGGCGGCTTACGAGCC 8600

RESULT 7
US-08-836-075A-57
Sequence 57, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MARTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 57:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-57

Query Match 48.9%; Score 166.4; DB 3; Length 340;
 Best Local Similarity 67.6%; Pred. No. 2.2e-42;
 Matches 230; Conservative 2; Mismatches 108; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGGCGTGAATCCGCACTGTAACGACATCTATCACTGCTCCCAATT 60
 DB 1 CTCGACAGTTACTGAGAACGACATTCGTGTCGAGGAAATCACTACCACTGCTGACTT 60
 QY 61 AGATCCGGTAGACCGGAAGCCATTATCATCTTACTAGCGGGGTACTGCGGGGGCCC 120
 DB 61 GCGCCCGGAGCGCCCGAAGGCCATTAAGTGCCTACCGAGCGCGTGTATATCGGGGGTCC 120
 QY 121 CATGTACAACCTCTCGAGTCACTGATGTGGGTACCGCAGTGCCTGGCTAGTGTCTT 180
 DB 121 CCTAACCAACTCAAAAGGCGAAGACTGGGGCTACCGTGGTCCCGCGCAGGGGGTGTCT 180
 QY 181 CACCAACAGCTTGGGCAACACCATGACATGCTAAGGCTCAGCGGGCTTTGAGGC 240
 DB 181 GACTACGAGCTCGGTAATATACCTTCACATGTTACTTGAAGCCAGGGCGCGCTGTGAGC 240
 QY 241 AGCBAAGCTCAAAACTTTGACATGTGTGTCGGGAGCGACCTAGTGTATATGCTGA 300
 DB 241 TCGAAGCTTCGAGACTGCAACATGCTGTGTGCGGAGCACTTGTGTATCTGTGA 300
 QY 301 GAGCGAGAGATCCCTGAGATGCCGGGCGCTGCGAGTC 340
 DB 301 GAGTGGGAGTCCGAGAGATGCCGGGCACTACGAGTC 340

RESULT 8
 US-08-836-075A-85
 ; Sequence 85, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P. O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/836,075A
 ; FILING DATE: 21 Apr 1997
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/EP95/04155
 ; FILING DATE: 23 Oct 1995
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: EP 94870166.9
 ; FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 85:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-85

Query Match 48.9%; Score 166.4; DB 3; Length 340;
 Best Local Similarity 67.6%; Pred. No. 2.2e-42;
 Matches 230; Conservative 2; Mismatches 108; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGGCGTGAATCCGCACTGTAACGACATCTATCACTGCTCCCAATT 60
 DB 1 CTCGACAGTTACTGAGAACGACATTCGTGTCGAGGAAATCACTACCACTGCTGACTT 60
 QY 61 AGATCCGGTAGACCGGAAGCCATTATCATCTTACTAGCGGGGTACTGCGGGGGCCC 120
 DB 61 GCGCCCGGAGCGCCCGAAGGCCATTAAGTGCCTACCGAGCGCGTGTATATCGGGGGTCC 120
 QY 121 CATGTACAACCTCTCGAGTCACTGATGTGGGTACCGCAGTGCCTGGCTAGTGTCTT 180
 DB 121 CATGTACAACGCAAAAGGCGAGCTCTGGGGTATTCGAGGTGCCCGGAGCGAGTGA 180
 QY 181 CACCAACAGCTTGGGCAACACCATGACATGCTTACCTGAAGGCTCAGCGGGCTTTGAGGC 240
 DB 181 CACCAAGTTCGGAACACAGTGAACCTGCTATCTTAAGGCCACCGGACTTACCAAGGC 240
 QY 241 AGCBAAGCTCAAAACTTTGACATGTGTGTCGGGAGCGACCTAGTGTATATGCTGA 300
 DB 241 TCGAAGCTTCGAGACTGCAACATGCTGTGTGCGGAGCACTTGTGTATCTGTGA 300
 QY 301 GAGCGAGAGATCCCTGAGATGCCGGGCGCTGCGAGTC 340
 DB 301 GAGCGAGGCGCTGAGAGATGCCGGGCACTACGAGTC 340

RESULT 9
 US-08-836-075A-61
 ; Sequence 61, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P. O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/836,075A
 ; FILING DATE: 21 Apr 1997

PRIOR APPLICATION NUMBER: 09/337,028
PRIOR FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 11
LENGTH: 1782
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(1779)
US-09-597-877-11

Query Match 48.7%; Score 165.6; DB 3; Length 1782;
Best Local Similarity 67.9%; Pred. No. 7.4e-42;
Matches 231; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

QY 1 CTCCTCCGTACGAGCGGTGACATCCGACATGAACACATCTATCAGTGTGCAATT 60
DB 681 CTCACAGTCAACAGAGTGAATCCGTGTGAGAGTCAATCTACCAATGTTGACTT 740
QY 61 AGATCCGTAGACGGAAGCCATTACATCTCTTCTAGCGGCTGTACTGGCGGCGC 120
DB 741 GCGCCCGAAGCAGGAGCCATAGGTGCTCAGAGCGGCTTTACATCGGGGCGCC 800
QY 121 CATGTACAATCTCTGAGTCAATGTGGGTACCGAGTGCAGGCTAGTGTCTT 180
DB 801 CTTGACTAATCAAAAGGCGAAGTCTGCGTTATGCGGTTCCGCGGAGGCTGTGCT 860
QY 181 CACCAAGCTTGGGCAACACCATGATGCTACTGTAAGGCTGAGCGGCTTTGAGGCG 240
DB 861 GACGACTAGTGGGTAAATACCTTCACATGTTACTTGAAGGCACTGCGGCTGTGAGC 920
QY 241 AGCRAAGTCAAAACTTTGACATGTGTCTGCGGAGACCACTTATGTTATTCGTA 300
DB 921 TGCAGAGTCCAGAGCTGACATGCTGTGTGCGGAGACCTTGTGTTATCTGTA 980
QY 301 GAGCGGAGAGTCCCTGAGATGCGGGGCGCTGCGAGTC 340
DB 981 AAGCGGGAGACCCAGAGAGACGCGGCAAGCTTACGAGTC 1020

RESULT 12
US-08-441-971-11
Sequence 11, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US/08/221,653
APPLICATION NUMBER: US/07/881,528
FILING DATE: 07/697,326

FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: ns5p1
US-08-441-971-11

Query Match 48.6%; Score 165.2; DB 3; Length 340;
Best Local Similarity 67.6%; Pred. No. 5.3e-42;
Matches 230; Conservative 1; Mismatches 109; Indels 0; Gaps 0;

QY 1 CTCCTCCGTACGAGCGGTGACATCCGACATGAACACATCTATCAGTGTGCAATT 60
DB 1 CTCACAGTCAACAGAGTGAATCCGTGTGAGAGTCAATCTACCAATGTTGACTT 60
QY 61 AGATCCGTAGACGGAAGCCATTACATCTCTTCTAGAGGCTGTACTCGGCGGCGCC 120
DB 61 GCGCCCGAAGCAGGAGCCATAGGTGCTCAGAGCGGCTTTACATCGGGGCGCC 120
QY 121 CATGTACAATCTCTGAGTCAATGTGGGTACCGAGTGCAGGCTAGTGTCTT 180
DB 121 CTTGACTAATCAAAAGGCGAAGTCTGCGTTATGCGGTTCCGCGGAGGCTGTGCT 180
QY 181 CACCAAGCTTGGGCAACACCATGATGCTACTGTAAGGCTGAGCGGCTTTGAGGCG 240
DB 181 GACGACTAGTGGGTAAATACCTTCACATGTTACTTGAAGGCACTGCGGCTGTGAGC 240
QY 241 AGCRAAGTCAAAACTTTGACATGTGTCTGCGGAGACCACTTATGTTATTCGTA 300
DB 241 TGCAGAGTCCAGAGCTGACATGCTGTGTGCGGAGACCTTGTGTTATCTGTA 300
QY 301 GAGCGGAGAGTCCCTGAGATGCGGGGCGCTGCGAGTC 340
DB 301 GAGCGGGAGACCCAGAGAGACGCGGCAAGCTTACGAGTC 340

RESULT 13
US-08-221-653-11
Sequence 11, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:

```
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/07/881,528
/ FILING DATE:
/ APPLICATION NUMBER: 07/697,326
/ FILING DATE: 8 May 1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Janiak, Anthony J.
/ REGISTRATION NUMBER: 29,809
/ REFERENCE/DOCKET NUMBER: C0772/7000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 720-3500
/ TELEFAX: (617) 720-2441
/ TELEX: EZEKIEL
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ns5ep1
/
US-08-221-653-11

Query Match          48.6%; Score 165.2; DB 3; Length 340;
Best Local Similarity 67.6%; Pred. No. 5.3e-42;
Matches 230; Conservative 1; Mismatches 109; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGCGGTGACATCCGACGACGACATCTATCACTGCTGCCAATT 60
DB 1 CTCACAGCTCACTGAGAGTACATCCGTGTGAGGAGTCAATTTCATTTGTTGACTT 60
QY 61 AGATCCGATGACGCGAAGGCAATTAACATCTCTTCTGAGCGGCTGTATCGGGGGGCC 120
DB 61 GGGCCCCGAGCGACGACGAGCTATAGGTGCTCAGAGCGGCTGTATCATGGGGGCTC 120
QY 121 CATGTACAACCTCTCGAGTCACTCATGTGGTACCGCAGGTCCGGGCTAGTGTCTT 180
DB 121 CCGTACTAATTCATAAAGGCGACAACTGCGGCTATCCCGGTCCCGCGAAGCGGCTGT 180
QY 181 CACCAAGCTTTGGGCAACACATGACATGCTACTCTGAAAGGCTCAGGCGGCTTGTAGGCG 240
DB 181 GACGACTAGCTCGGTTAACACCTCAATGTTACTTGAAGGCTCTGCGGCTGTGCGAGC 240
QY 241 AGCRAAGCTCAAAACTTTGACATGTTGGTCTGCGGAGCGACGACCTGATTCCTGA 300
DB 241 TGCGAAGCTCCAGAGCTGACGATGCTGTGTGCGGTGACGACCTTGTCTGTGTA 300
QY 301 GAGCGAGGAGTCCCTGAGATGCGGGGCGCTGCGAGTC 340
DB 301 GAGCGCGGGAACCAAGAGGAGCGCGGCGAGCTTACGAGTC 340

RESULT 14
US-08-442-144A-11
/ Sequence 11, Application US/08442144A
/ Patent No. 6214583
/ GENERAL INFORMATION:
/ APPLICANT: Tai-An Cha
/ APPLICANT: Eileen Beall
/ APPLICANT: Bruce Irvine
/ APPLICANT: Janice Kolberg
/ APPLICANT: Michael S. Urdea
/ TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
/ TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
/ NUMBER OF SEQUENCES: 148
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Chiron Corporation
/ STREET: 4560 Horton Street
/ CITY: Emeryville
/ STATE: California
/ COUNTRY: USA
```

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/ ZIP: 94608-2916
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 3.5 Inch
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: Windows NT
/ SOFTWARE: Microsoft Word 97
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/442,144A
/ FILING DATE: MAY 16, 1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/221,653
/ FILING DATE: APRIL 1, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Doreen Yaeiko Trujillo
/ REGISTRATION NUMBER: 35,719
/ REFERENCE/DOCKET NUMBER: CHIR-0121
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 215-568-3100
/ TELEFAX: 215-568-3439
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 Nucleotides
/ TYPE: Nucleic Acid
/ STRANDEDNESS: Single
/ TOPOLOGY: Linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ns5ep1
/
US-08-442-144A-11

Query Match          48.6%; Score 165.2; DB 3; Length 340;
Best Local Similarity 67.6%; Pred. No. 5.3e-42;
Matches 230; Conservative 1; Mismatches 109; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGCGGTGACATCCGACGACGACATCTATCACTGCTGCCAATT 60
DB 1 CTCACAGCTCACTGAGAGTACATCCGTGTGAGGAGTCAATTTCATTTGTTGACTT 60
QY 61 AGATCCGATGACGCGAAGGCAATTAACATCTCTTCTGAGCGGCTGTATCGGGGGGCC 120
DB 61 GGGCCCCGAGCGACGACGAGCTATAGGTGCTCAGAGCGGCTGTATCATGGGGGCTC 120
QY 121 CATGTACAACCTCTCGAGTCACTCATGTGGTACCGCAGGTCCGGGCTAGTGTCTT 180
DB 121 CCGTACTAATTCATAAAGGCGACAACTGCGGCTATCCCGGTCCCGCGAAGCGGCTGT 180
QY 181 CACCAAGCTTTGGGCAACACATGACATGCTACTCTGAAAGGCTCAGGCGGCTTGTAGGCG 240
DB 181 GACGACTAGCTCGGTTAACACCTCAATGTTACTTGAAGGCTCTGCGGCTGTGCGAGC 240
QY 241 AGCRAAGCTCAAAACTTTGACATGTTGGTCTGCGGAGCGACGACCTGATTCCTGA 300
DB 241 TGCGAAGCTCCAGAGCTGACGATGCTGTGTGCGGTGACGACCTTGTCTGTGTA 300
QY 301 GAGCGAGGAGTCCCTGAGATGCGGGGCGCTGCGAGTC 340
DB 301 GAGCGCGGGAACCAAGAGGAGCGCGGCGAGCTTACGAGTC 340

RESULT 15
US-08-441-970-11
/ Sequence 11, Application US/08441970
/ Patent No. 6297370
/ GENERAL INFORMATION:
/ APPLICANT: Tai-An Cha
/ APPLICANT: Eileen Beall
/ APPLICANT: Bruce Irvine
/ APPLICANT: Janice Kolberg
/ APPLICANT: Michael S. Urdea
/ TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
/ TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
/ NUMBER OF SEQUENCES: 147
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
/ STREET: 600 Atlantic Avenue
```

CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: ns5sp1
INDIVIDUAL ISOLATE: ns5sp1
US-08-441-970-11

Query Match 48.6%; Score 165.2; DB 3; Length 340;
Best Local Similarity 67.6%; Pred No. 5.3e-42;
Matches 230; Conservative 1; Mismatches 109; Indels 0; Gaps 0;
QY 1 CTCCTCCGTCAAGCGAGCGTGCATCGCATCGACACGACATCTATCAGTGTGCCAAT 60
DB 1 CTCACAGTCACTGAGAGTGCATCGTGTGAGGAGTCAATTACCATGTTGTGACT 60
QY 61 AGATCGGTAGACCGAAAGCCATTACATCTTACTAGAGCGGCTGTACTGCGCGCC 120
DB 61 GGGCCCCGAAGCGACAGCAGGCTATAGGTCCCTCACAGAGCGGCTGTACATCGGGGCTCC 120
QY 121 CATGTACAACCTCGAGGTCACTGTGAGTCCGACGAGTGCAGGCTAGTGTGCTT 180
DB 121 CTTGACTAATTAAGAGGAGGAGTCACTGCGGCTATGCGGCTGCCGCAAGGCGGCT 180
QY 181 CACCAAGCTTGGGCAACACCATGACATGTACTGTAAGGCTCAGCGGCTTGTAGGAC 240
DB 181 GACGACTAGCTGCGGTAAACCCCTCATGTTACTTGAAGGCTCTGCGGCTGTGAGC 240
QY 241 AGCRAAGCTCAAAAATTGACATTTGGTCTGCGGAGACGACTTATGTTATGCTGA 300
DB 241 TCGGAAGCTCCAGAGCTCAGCATGCTGTGTCGGTGAAGACCTTGTGTTATCTGTA 300
QY 301 GAGCGGAGAGTCCCTGAGATGCGGGGCGCTGGAGTC 340
DB 301 GAGCGGGAACCCAGAGAGCGCGGCAAGCTTACGAGTC 340

Search completed: January 11, 2006, 14:46:41
Job time : 101.519 secs

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Dy 301 AAGCAAGGGGTTGAGAGAGACCAACGACCTTACGA 337
||| ||| ||| ||| ||| : ||
Db 8642 GAGCCAAAGTUAAGAAGAGACGACGAACCTGAGA 8678

RESULT 15
HS-07-925

US-07-925-695-7
Sequence 7, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925, 695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20, 531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-7

Query Match	64.2%;	Score 218.2;	DB 2;	Length 9511;
Best Local Similarity	77.7%;	Pred. No. 5.9e-59;		
Matches 262;	Conservative 1;	Mismatches 74;	Indels 0;	Gaps 0

QY	1	CTCTAACTCTCAGAGAGGGATATATCAAGAGAGATTCATATCTGGCTTGCATTT	60
Db	8342	CTCAACCTCACGAGAGGAGCATTAAGAACAGAGATTCATATATCAGGCTTTGTTCT	8401
QY	61	GCCCGAAGAGGCCCGGAGAGCCATCAATCACTGACAGAGACTATACGTGGCGGCGC	120
Db	8402	GCTTCAGAGAGCGAGAACTGTCTATACCTCGCTCACTGAGAGACTTTAGTAGAGGGCC	8465
QY	121	GATGAAAAACAGCAAGGGCCAGGCTCGGGGATACAGGCGTTTCCCGCAAGCGGGATTT	180
Db	8462	CATGCAAAACAGCAAGGGCAATCCTGGCGGCTACAGGCGTGTGCCCGCAAGCGGAGTTT	8521
QY	181	CACCAACAAGCTTGGGGAAACACATCACTTGTATCAATCAAAAGCAAGGCGGCTTGTAAAGC	240
Db	8522	CACCAACAGCATGGGGGAATCCATATACATGTTAACATCAAAAGCCTTTGACGCGCTGTAAAGC	8588

Oy 241 CGCTGGCATTTGTATACCCAGTAAAGCTCTGTGTGGGCGACACACCTAAGTGCATTCATTCAGA 300
 Db 8582 TGCAGGGATCTGTGACCTCTGTTATGTTGTGTGTGTGAGAGACACCTCGTCTCATTCAGA 8644
 Oy 301 AAGCAAGGGGGGTGAGAGAGACCAACAGACCTTACGA 337
 Db 8642 GAGCCAGGTAAACAGAGAGACGAGCCAAACCTTACA 8678

Search completed: January 11, 2006, 14:46:46
Job time : 101.519 secs

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ANTI-SENSE: NO
US-08-836-075A-95

Query Match 99.7%; Score 339; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1.1e-105;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATCCACAGTCAGGGGGGGGAGCATATGCAACAGAACGACATTACTGTCCTGCGCAGCT 60
   |||
DB 1 ATCCACAGTCAGGGGGGGGAGCATATGCAACAGAACGACATTACTGTCCTGCGCAGCT 60
   |||
QY 61 CGACCCAGAGGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGCGGGGCC 120
   |||
DB 61 CGACCCAGAGGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGCGGGGCC 120
   |||
QY 121 TATGTACAACTCAAGAGGCCCACTGTGTGTCAAGCCGATGCGGACGAGGAGTACT 180
   |||
DB 121 TATGTACAACTCAAGAGGCCCACTGTGTGTCAAGCCGATGCGGACGAGGAGTACT 180
   |||
QY 181 CCCCAACAGCATGGGTATACACCATCATGCTTCCGAAAGGCAACGCGCTTGCGGAGC 240
   |||
DB 181 CCCCAACAGCATGGGTATACACCATCATGCTTCCGAAAGGCAACGCGCTTGCGGAGC 240
   |||
QY 241 AGCCGCTTTACAGATTATGACATGTTGTCTGCGGAGACGATTTGTTGCTGTAACCTGA 300
   |||
DB 241 AGCCGCTTTACAGATTATGACATGTTGTCTGCGGAGACGATTTGTTGCTGTAACCTGA 300
   |||
QY 301 GAGTCTGAGTCAACGAGAGATATCGCTTAACCTGCGAGCC 340
   |||
DB 301 GAGTCTGAGTCAACGAGAGATATCGCTTAACCTGCGAGCC 340
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RESULT 2

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US-08-836-075A-93
; Sequence 93, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 93:
; SEQUENCE CHARACTERISTICS:

```

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-93

Query Match 55.2%; Score 187.6; DB 3; Length 340;
Best Local Similarity 72.0%; Pred. No. 6e-54;
Matches 244; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

```

QY 2 TCACAGTCACGGGGCGCGACATACGACAGAACGACATTACTGTCCTGCGCAGCTC 61
   |||
DB 2 TCCTCCGTCACGAGAGCGTGAACATCCGCACTGAACGACATCTATCACTGTCGCAATTA 61
   |||
QY 62 GACCCAGAGGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGCGGGGCCCT 121
   |||
DB 62 GATCCGTAAGCAGGAAAGCCATTAATCTTACTGAGCGGCTGTACTGCGGCGGCCCC 121
   |||
QY 122 ATGTCAACTCAAGAGGCCCACTGTGTGTCAAGCCGATGCGGACGAGGAGTACTC 181
   |||
DB 122 ATGTCAACTCTCGAGGTCAATGATGTGGTACGCGAGGTGCGGCTGATGTGCTTC 181
   |||
QY 182 CCCCAACAGCATGGGTATACACCATCATGCTTCCGAAAGGCAACGCGCTTGCGGAGCA 241
   |||
DB 182 ACCCAACAGCTTGGGCAACCATGACATGCTACTGAAAGGCTCAGGCGGCTTGTAGGGCA 241
   |||
QY 242 GCCGCTTTACAGATTATGACATGTTGTCTGCGGAGACGATTTGTTGCTGTAACCTGAG 301
   |||
DB 242 GCGAAGCTCAAAAATTGACATGTTGTCTGCGGAGACGACTGATGTTATGCTGAG 301
   |||
QY 302 AGTCTGAGTCAACGAGAGATATCGCTTAACCTGCGAGCC 340
   |||
DB 302 AGCGAGAGTCTCGAGAGATCGCGGCGCTGCGAGTC 340
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RESULT 3

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US-08-836-075A-91
; Sequence 91, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995

```


ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-91

Query Match 51.9%; Score 176.6; DB 3; Length 340;
Best Local Similarity 69.8%; Pred. No. 3.5e-50;
Matches 236; Conservative 1; Mismatches 101; Indels 0; Gaps 0;

QY 2 TCACAGTCACGGGGCGGACATATCCGACAGAAACNACATTACCTGCTCCAGCTC 61
DB 2 TGACAGTCACGGAGGCGGACATCCGACGAGACATCTACCAATGCTGCCAATT 61
QY 62 GACCCAGAGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGGGGCCCT 121
DB 62 GACCCGCTGAGACGCAAGGCTATTACATCTCTGACGAGGCGCTGACTGCGGAGGCC 121
QY 122 ATGTACAATCAAGGGCCCACTCTGTGTCAACGCCGATGCCGAGCAAGGAGTACTC 181
DB 122 ATGTACAATCCCGTGTATCATCTGTGATACCGTAAAGGTGCGGACCGGTGCTC 181
QY 182 CCCACAGCATGGGTAAACCATCATGCTCTTCTGAAGCAACGCCCTTGCCGAGCA 241
DB 182 ACCACAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAACAGCAAGCGTGTAGGCA 241
QY 242 GCCGCTTACAGATTATGACATGTTGTCTGCGGAGAGCATTTGTTGCTGAATGAG 301
DB 242 GCAAGAGCTCAAAAATATGACATGTTAGTCTGCGGAGAGCATCTAGCTTATCGCGGAG 301
QY 302 AGTGTGAGTCAACGAGATATCGCTAACCTGCCGAGC 339
DB 302 AGTGAGAGTCTCTGAGATGTTGACGCCCTGCGAGC 339

RESULT 4

US-09-878-281A-211
Sequence 211, Application US/09878281A
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 211
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: misc feature
LOCATION: (11)..(11)
OTHER INFORMATION: "n" is any nucleotide
FEATURE:
NAME/KEY: misc feature
LOCATION: (327)..(327)
OTHER INFORMATION: "n" is any nucleotide
FEATURE:
NAME/KEY: misc feature
LOCATION: (333)..(334)
OTHER INFORMATION: "n" is any nucleotide

FEATURE:
NAME/KEY: misc feature
LOCATION: (340)..(340)
OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-211

Query Match 50.4%; Score 171.4; DB 3; Length 340;
Best Local Similarity 68.6%; Pred. No. 2.1e-48;
Matches 232; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTCACGGGGCGGACATATCCGACAGAAACNACATTACCTGCTCCAGCTC 61
DB 2 TGACAGTCACGGAGGCGGACATCCGACGAGACATCTACCAATGCTGCCAATT 61
QY 62 GACCCAGAGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGGGGCCCT 121
DB 62 GACCCGCTGAGACGCAAGGCTATTACATCTCTGACGAGGCGCTGACTGCGGAGGCC 121
QY 122 ATGTACAATCAAGGGCCCACTCTGTGTCAACGCCGATGCCGAGCAAGGAGTACTC 181
DB 122 ATGTACAACAGAGGAGACCTGTGCGGAGCAAGCGGCTGCGCAAGGGCGTGTTC 181
QY 182 CCCACAGCATGGGTAAACCATCATGCTCTTCTGAAGCAACGCCGCTTGCCGAGCA 241
DB 182 ACCACAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAACAGCAAGCGTGTAGGCA 241
QY 242 GCCGCTTACAGATTATGACATGTTGTCTGCGGAGAGCATTTGTTGCTGAATGAG 301
DB 242 GCCGCTTAAAGATTGACATGCTGTGTCTGCGGAGAGCATTTGTTGCTGAATGAG 301
QY 302 AGTGTGAGTCAACGAGATATCGCTAACCTGCCGAGC 339
DB 302 AGCGCGGTGTGAGAGAGATGCCAANAACCNAGACC 339

RESULT 5

US-08-441-971-2
Sequence 2, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-441-971-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6.2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTACGCGGGCGGCGACATACGACAGAAACNAGATTACCTGCTGCCAGCTC 61
DB 2 TCACAGTACGCGGGCGGCGACATACCTGACGAGAGGCAATTTACCAATGTTGTGACCTG 61
QY 62 GACCCGAGAGCGCGGAAAGCCATTAAGTCTCTGCTGAGAGGCTTATGTGCGGGCCCT 121
DB 62 GACCCGAGAGCGCGGATGCGCATCAAGTCCCTCACTGAGAGGCTTATGTGCGGGCCCT 121
QY 122 ATGTACAACTCAAGAGGCGCACTGTGTGTCACCGCGATGCCGAGACAGCGGAGTACTC 181
DB 122 CTTACCAATTCAAGGGGGGAGAACTCGGCTACCGAGGGCCGCGAGCGGCGTACTG 181
QY 182 CCCAAGCATGGGTAAACCATCATGCTCTGTAAGGCAACCCCGCTTGCCGAGCA 241
DB 182 ACACTAGCTGTGTAAACCCCTCACTGCTATCATAGAGCCCGGCGACAGCTGTGAGCC 241
QY 242 GCCGCTTTACAGATTATGACATGTGTGTCGAGAGCAATTTGTTGTCTGTAAGT 301
DB 242 GCAGGGCTCCAGAGCTGACACATGCTGTGTGTGCGAGCACTTATGTTATCTGTGA 301
QY 302 AGTCTGAGTCAACGAGATATCGCTAACCTGCCAGCC 340
DB 302 AGTGGGGGCTCCAGAGGAGCGGGCGAGCTGAGAGCC 340

RESULT 6
US-08-221-653-2
Sequence 2, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P. C.
STREET: 600 Atlantic Avenue
City: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/891,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-221-653-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6.2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTACGCGGGCGGCGACATACGACAGAAACNAGATTACCTGCTGCCAGCTC 61
DB 2 TCACAGTACGCGGGCGGCGACATACCTGACGAGAGGCAATTTACCAATGTTGTGACCTG 61
QY 62 GACCCGAGAGCGCGGAAAGCCATTAAGTCTCTGCTGAGAGGCTTATGTGCGGGCCCT 121
DB 62 GACCCGAGAGCGCGGATGCGCATCAAGTCCCTCACTGAGAGGCTTATGTGCGGGCCCT 121
QY 122 ATGTACAACTCAAGAGGCGCACTGTGTGTCACCGCGATGCCGAGACAGCGGAGTACTC 181
DB 122 CTTACCAATTCAAGGGGGGAGAACTCGGCTACCGAGGTGCGCGAGCGGCGTACTG 181
QY 182 CCCAAGCATGGGTAAACCATCATGCTCTGTAAGGCAACCCCGCTTGCCGAGCA 241
DB 182 ACACTAGCTGTGTAAACCCCTCACTGCTATCATAGAGCCCGGCGACAGCTGTGAGCC 241
QY 242 GCCGCTTTACAGATTATGACATGTGTGTCGAGAGCAATTTGTTGTCTGTAAGT 301
DB 242 GCAGGGCTCCAGAGCTGACACATGCTGTGTGTGCGAGCACTTATGTTATCTGTGA 301
QY 302 AGTCTGAGTCAACGAGATATCGCTAACCTGCCAGCC 340
DB 302 AGTGGGGGCTCCAGAGGAGCGGGCGAGCTGAGAGCC 340

RESULT 7
US-08-442-144A-2
Sequence 2, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Under
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
City: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-442-144A-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6,2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCCACAGTCACGGGGCGGACATAGCGACAGAAACAGATTACCTGCTCCAGCTC 61
DB 2 TCCACAGTCACGGGGCGGACATCCGTACGAGAGGAGCAATTACCAATGTTGACCTG 61
QY 62 GACCCAGAGCCCGGAAAGCCATTAAGTCTCTACAGAGAGCTCTATGTCGGGGCCCT 121
DB 62 GACCCAGAGCCCGGATGACATCAAGTCCCTACAGAGAGCTTTATGTCGGGGCCCT 121
QY 122 ATGTACAACCTCAAGGGCCCACTGTGTGTCACAGCCGATGCCAGCAAGCGAGTACTC 181
DB 122 CTTACCAATTCAAGGGGGGAGAACTGCGGCTACCGAGAGTCCGCGGAGCCGCTACTG 181
QY 182 CCAACAGATGGGTAAACCAATCAATCATCTCTCTGTAAGGCAACCGCGCTTGCCAGCA 241
DB 182 ACAACTAGCTGTGTAAACCTCTCACTTGTATCAATCAAGCCCGGAGCACTGTGAGGC 241
QY 242 GCCGCTTACAGATTATGACATGTTGCTGCGGAGAGATTGTTGCTGTAAGTGA 301
DB 242 GGAGGGCTTCAGAGACTGCAACATGCTTGTGTGTGGGAGAGCACTTGTGTAATCTGTGA 301
QY 302 AGTGTGAGTCAACGAGATATCGCTACCTGCGAGCC 340
DB 302 AGTGTGAGGGTTCAGAGAGAGCGGCGAGCTTGAGAGCC 340

RESULT 8
US-08-441-970-2
Sequence 2, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiak, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-441-970-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6,2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCCACAGTCACGGGGCGGACATAGCGACAGAAACAGATTACCTGCTCCAGCTC 61
DB 2 TCCACAGTCACGGGGCGGACATCCGTACGAGAGGAGCAATTACCAATGTTGACCTG 61
QY 62 GACCCAGAGCCCGGAAAGCCATTAAGTCTCTACAGAGAGCTCTATGTCGGGGCCCT 121
DB 62 GACCCAGAGCCCGGATGACATCAAGTCCCTACAGAGAGCTTTATGTCGGGGCCCT 121
QY 122 ATGTACAACCTCAAGGGCCCACTGTGTGTCACAGCCGATGCCAGCAAGCGAGTACTC 181
DB 122 CTTACCAATTCAAGGGGGGAGAACTGCGGCTACCGAGAGTCCGCGGAGCCGCTACTG 181
QY 182 CCAACAGATGGGTAAACCAATCAATCATCTCTCTGTAAGGCAACCGCGCTTGCCAGCA 241
DB 182 ACAACTAGCTGTGTAAACCTCTCACTTGTATCAATCAAGCCCGGAGCACTGTGAGGC 241
QY 242 GCCGCTTACAGATTATGACATGTTGCTGCGGAGAGATTGTTGCTGTAAGTGA 301
DB 242 GGAGGGCTTCAGAGACTGCAACATGCTTGTGTGTGGGAGAGCACTTGTGTAATCTGTGA 301
QY 302 AGTGTGAGTCAACGAGATATCGCTACCTGCGAGCC 340
DB 302 AGTGTGAGGGTTCAGAGAGAGCGGCGAGCTTGAGAGCC 340

RESULT 9
US-08-441-971-5
Sequence 5, Application US/08441971
Patent No. 6071693

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts

```

; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5us17
;
US-08-441-971-5

Query Match          49.5%; Score 168.4; DB 3; Length 340;
Best Local Similarity 68.4%; Pred. No. 2.2e-47;
Matches 232; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY      2 TCCACAGTCAAGGGGCGGCAATACGACAGAAACNAGACATTTACCTGCTCCAGCTC 61
DB      2 TCCACAGTCACTGAGAGCCATTCGTAAGAGAGGCAATCTACCAAGTGTGTGACTG 61
QY      62 GACCCAGAGGCCCGGAAAGCCATTAAGTCTCTACTGAGAGGCTCTATGTCCGGGGCCCT 121
DB      62 GACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACAGAGGGCTTTATGTCCGGGGCCCT 121
QY      122 ATGTACAATCAAAAGGGCCCAACTCTGTGTCMAAGCGCATGCCGAGCAAGCGGAGTATC 181
DB      122 CTTACCAATTCAAAGGGGGGAAACCTGCGCTATGCGAGGTGCCGCAAGCGGCGTACTG 181
QY      182 CCCACAAGATGGGTAAACCATCATCATGCTTCTGAAGGCAACCGCGCTTGCCGAGCA 241
DB      182 ACAACTAGCTGTGTAAACCCCTCACTGTGTATCATCAAGGCCCAACAGCGCTGTGAGCC 241
QY      242 GCCGCTTTACAGATTATGACATGTTGCTGCGGAGAGCATTTGTTGTCGTAACGTAG 301
DB      242 GCAGGCTCCGGAGCTGCAACATGCTGCTGTGTGCGGAGCACTTAAGTGTATCTGTGAA 301
QY      302 AGTCTGAGATCAAGAGGATATCGCTAACCTGCGAGCC 340
DB      302 AGTCAGGAGTCCAGAGGATGACGAGCAACCTGAGAGCC 340

RESULT 10
US-08-221-653-5
; Sequence 5, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
```

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; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5us17
;
US-08-221-653-5

Query Match          49.5%; Score 168.4; DB 3; Length 340;
Best Local Similarity 68.4%; Pred. No. 2.2e-47;
Matches 232; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY      2 TCCACAGTCAAGGGGCGGCAATACGACAGAAACNAGACATTTACCTGCTCCAGCTC 61
DB      2 TCCACAGTCACTGAGAGCCATTCGTAAGAGAGGCAATCTACCAAGTGTGTGACTG 61
QY      62 GACCCAGAGGCCCGGAAAGCCATTAAGTCTCTACTGAGAGGCTCTATGTCCGGGGCCCT 121
DB      62 GACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACAGAGGGCTTTATGTCCGGGGCCCT 121
QY      122 ATGTACAATCAAAAGGGCCCAACTCTGTGTCMAAGCGCATGCCGAGCAAGCGGAGTATC 181
DB      122 CTTACCAATTCAAAGGGGGGAAACCTGCGCTATGCGAGGTGCCGCAAGCGGCGTACTG 181
QY      182 CCCACAAGATGGGTAAACCATCATCATGCTTCTGAAGGCAACCGCGCTTGCCGAGCA 241
DB      182 ACAACTAGCTGTGTAAACCCCTCACTGTGTATCATCAAGGCCCAACAGCGCTGTGAGCC 241
QY      242 GCCGCTTTACAGATTATGACATGTTGCTGCGGAGAGCATTTGTTGTCGTAACGTAG 301
DB      242 GCAGGCTCCGGAGCTGCAACATGCTGCTGTGTGCGGAGCACTTAAGTGTATCTGTGAA 301
QY      302 AGTCTGAGATCAAGAGGATATCGCTAACCTGCGAGCC 340
DB      302 AGTCAGGAGTCCAGAGGATGACGAGCAACCTGAGAGCC 340

RESULT 11
US-08-442-144A-5
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Sequence 5, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdan
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEO ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5us17
US-08-442-144A-5

Query Match 49.5%; Score 168.4; DB 3; Length 340;
Best Local Similarity 68.4%; Pred. No. 2,2e-47;
Matches 232; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY 2 TCACAGTCACGGGGCGGACATACGACAGAAACNAGCATTTACTGTCTGCGAGCTC 61
DB 2 TCACAGTCACGGGGCGGACATATCGTACGGAGGAGCAATCTACATGTTTGACTG 61
QY 62 GACCCAGAGGCGCCGGAAGCCATTAAGTCTCTACTGAGAGGCTTATGTGGGGGCTT 121
DB 62 GACCCAGAGGCGCCGCGGATCAAGTCCCTCACCGAGAGGCTTTATGTGGGGGCTT 121
QY 122 ATGTACAACCTCAAGAGCCCACTGTGTCAAGCGCGATGCCGAGCAAGGAGGAGTATC 181
DB 122 CTTCACATTTCAAGGGGGGAAAACGTGGGCTATGCGAGAGTGGCGCAAGCGGCTACTG 181
QY 182 CCACAGACATGGGTAAACCATCAATCATCTTCTGAAAGCAACCGCGCTTGCAGACA 241
DB 182 ACAACTAGCTGTGTAAACCCCTCACTTTTACATCAAGCCCAAGGAGCGCTGTGAGCC 241
QY 242 GCCGCTTACAGATTAGCATGTGTGTCTGCGAGAGCATTTGTGTGTGTGTGTGTAG 301
DB 242 GCAGGGCTCGGGAGCATGACCATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGA 301

QY 302 AGTGCTGAGTCAACGAGATATGCTTAACCTGCGAGCC 340
DB 302 AGTCAGGAGTCCAGAGGATATGACCGAACCCTGAGAGCC 340

RESULT 12
US-08-441-970-5
Sequence 5, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEO ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5us17
US-08-441-970-5

Query Match 49.5%; Score 168.4; DB 3; Length 340;
Best Local Similarity 68.4%; Pred. No. 2,2e-47;
Matches 232; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY 2 TCACAGTCACGGGGCGGACATACGACAGAAACNAGCATTTACTGTCTGCGAGCTC 61
DB 2 TCACAGTCACGGGGCGGACATATCGTACGGAGGAGCAATCTACATGTTTGACTG 61
QY 62 GACCCAGAGGCGCCGGAAGCCATTAAGTCTCTACTGAGAGGCTTATGTGGGGGCTT 121
DB 62 GACCCAGAGGCGCCGCGGATCAAGTCCCTCACCGAGAGGCTTTATGTGGGGGCTT 121
QY 122 ATGTACAACCTCAAGAGCCCACTGTGTCAAGCGCGATGCCGAGCAAGGAGGAGTATC 181
DB 122 CTTCACATTTCAAGGGGGGAAAACGTGGGCTATGCGAGAGTGGCGCAAGCGGCTACTG 181
QY 182 CCACAGACATGGGTAAACCATCAATCATCTTCTGAAAGCAACCGCGCTTGCAGACA 241
DB 182 ACAACTAGCTGTGTAAACCCCTCACTTTTACATCAAGCCCAAGGAGCGCTGTGAGCC 241

QY 122 ATGTACAACTCAAGGGCCAACTGTGTGTCACGCCGATGCGGAGCAAGCGAGTACTC 181
 Db 8397 CTTACCAATTCAGGGGGGAAACTGCGGCTACCCGAGGTGCGCGAGCGGCTACTG 8456
 QY 182 CCCACAGCATGGGTAAACCATCATGCTTCTGAAAGGCAACCGCGCTTGCCGAGCA 241
 Db 8457 ACAACTAGCTGTGTAAACCCCTCACTGTACATCAAGGCCCGGGCAGCCTGTGAGCC 8516
 QY 242 GCCGCTTACAGATTATGACATGTTGTCTGCGGAGAGCAATTGTTGTCTACTAG 301
 Db 8517 GAGGGCTTCAGAGCTGACCATGCTCGTGTGTGCGAGACTTATGCTTATCTGTAA 8576
 QY 302 AGTCTGAGTCAACGAGGATATCGCTAACCTGCGAGCC 340
 Db 8577 AGTGGGGGTCCAGAGGACCGCGGAGCTGAGAGCC 8615

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 Job time : 101.519 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-99

Perfect score: 340

Sequence: 1 ctctacgcgcacagagaggg.....accagcgagactacgagtc 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

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3: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	309.8	91.1	340	3	US-08-836-075A-105
3	304.6	89.6	335	3	US-08-836-075A-101
4	221.2	65.1	340	3	US-09-878-281A-215
5	219.2	64.5	9511	2	US-07-925-695-6
6	219.2	64.5	9511	2	US-07-925-695-7
7	218.4	64.2	340	3	US-08-441-971-15
8	218.4	64.2	340	3	US-08-221-653-15
9	218.4	64.2	340	3	US-08-442-144A-15
10	218.4	64.2	340	3	US-08-441-970-15
11	218	64.1	340	3	US-08-441-971-16
12	218	64.1	340	3	US-08-221-653-16
13	218	64.1	340	3	US-08-442-144A-16
14	218	64.1	340	3	US-08-441-970-16
15	213.6	62.8	340	3	US-08-836-075A-71
16	213.2	62.7	340	3	US-08-441-971-17
17	213.2	62.7	340	3	US-08-221-653-17
18	213.2	62.7	340	3	US-08-442-144A-17
19	213.2	62.7	340	3	US-08-441-970-17
20	208.8	61.4	2693	2	US-07-925-695-4
21	208.8	61.4	9589	2	US-07-925-695-1
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23	206.8	60.8	340	3	US-08-441-971-13
24	206.8	60.8	340	3	US-08-221-653-13

25	206.8	60.8	340	3	US-08-442-144A-13	Sequence 13, Appl
26	206.8	60.8	340	3	US-08-441-970-13	Sequence 13, Appl
27	205.6	60.5	340	3	US-09-878-281A-145	Sequence 145, App
28	202.4	59.5	340	3	US-08-441-971-14	Sequence 14, Appl
29	202.4	59.5	340	3	US-08-836-075A-69	Sequence 69, Appl
30	202.4	59.5	340	3	US-08-221-653-14	Sequence 14, Appl
31	202.4	59.5	340	3	US-08-442-144A-14	Sequence 14, Appl
32	202.4	59.5	340	3	US-08-441-970-14	Sequence 14, Appl
33	200.8	59.1	340	3	US-08-836-075A-79	Sequence 79, Appl
34	187.2	55.1	340	3	US-08-836-075A-77	Sequence 77, Appl
35	186.4	54.8	340	3	US-08-836-075A-73	Sequence 73, Appl
36	174.8	51.4	340	3	US-08-836-075A-55	Sequence 55, Appl
37	174.2	51.2	340	3	US-08-836-075A-83	Sequence 83, Appl
38	173.2	50.9	340	3	US-09-878-281A-201	Sequence 201, App
39	170.4	50.1	340	3	US-09-878-281A-106	Sequence 106, App
40	169.8	49.9	340	3	US-09-878-281A-211	Sequence 211, App
41	168.8	49.6	340	3	US-09-878-281A-112	Sequence 112, App
42	168.4	49.5	340	3	US-09-878-281A-116	Sequence 116, App
43	167.2	49.2	340	3	US-09-878-281A-207	Sequence 207, App
44	166.8	49.1	340	3	US-08-836-075A-85	Sequence 85, Appl
45	166.8	49.1	340	3	US-08-836-075A-87	Sequence 87, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-99
Sequence 99, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 99:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-99

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1.7e-106;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 CTTCTACCGTCACAGAGAGGACATACGACAGAGAGATCATCTATCTGTTCATTT 60
DB 1 CTTCTACCGTCACAGAGAGGACATACGACAGAGAGATCATCTATCTGTTCATTT 60
QY 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTCAGAGAGAGACTATACGTGGCGGCC 120
DB 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTCAGAGAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
DB 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
QY 181 CACCAAGAGCTTGGGAGAGACCATGACTTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
DB 181 CACCAAGAGCTTGGGAGAGACCATGACTTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
QY 241 CCGTGCATTGTAGACCCGCGTATGCTGTCGCGGTGACGACCTAGTGTATCTCAGA 300
DB 241 CCGTGCATTGTAGACCCGCGTATGCTGTCGCGGTGACGACCTAGTGTATCTCAGA 300
QY 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGACCTACAGATC 340
DB 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGACCTACAGATC 340

```

RESULT 2

US-08-836-075A-105
Sequence 105, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMBER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 105:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-105

Query Match 91.1%; Score 309.8; DB 3; Length 340;
Best Local Similarity 94.1%; Pred. No. 3.9e-96;
Matches 320; Conservative 1; Mismatches 19; Indels 0; Gaps 0;

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QY 1 CTTCTACCGTCACAGAGAGGACATACGACAGAGAGATCATCTATCTGTTCATTT 60
DB 1 CTTCTACCGTCACAGAGAGGACATACGACAGAGAGATCATCTATCTGTTCATTT 60
QY 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTCAGAGAGAGACTATACGTGGCGGCC 120
DB 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTCAGAGAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
DB 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
QY 181 CACCAAGAGCTTGGGAGAGACCATGACTTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
DB 181 CACCAAGAGCTTGGGAGAGACCATGACTTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
QY 241 CCGTGCATTGTAGACCCGCGTATGCTGTCGCGGTGACGACCTAGTGTATCTCAGA 300
DB 241 CCGTGCATTGTAGACCCGCGTATGCTGTCGCGGTGACGACCTAGTGTATCTCAGA 300
QY 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGACCTACAGATC 340
DB 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGACCTACAGATC 340

```

RESULT 3

US-08-836-075A-101
Sequence 101, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 335 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-101

Query Match
Best Local Similarity 93.4%; Score 304.6; DB 3; Length 335;
Matches 313; Conservative 4; Mismatches 18; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTGTCAATT 60
DB 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTGTCAATT 60
QY 61 GCGTGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGAGACTATACGTCGGCGGCC 120
DB 61 GCGTGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGAGACTATACGTCGGCGGCC 120
QY 121 GATGAAAAACAGAAAGGCGCAGGCTTGGCGATATAGCGCTTGGCGGCAAGCGGGTATT 180
DB 121 GATGAAAAACAGAAAGGCGCAGGCTTGGCGATATAGCGCTTGGCGGCAAGCGGGTATT 180
QY 181 CACCAACAGCTTGGGGAACACCATGACTTGTATCATCAAGCTTAAAGCGGCTTGTAAAGC 240
DB 181 CACCAACAGCTTGGGGAACACCATGACTTGTATCATCAAGCTTAAAGCGGCTTGTAAAGC 240
QY 241 CCGTGGCATTTAGACCCGGTGAATGCTGCTGCGGTGACGACCTTATGTCATCTCAAG 300
DB 241 YCGTGGCATTTAGACCCGGTGAATGCTGCTGCGGTGACGACCTTATGTCATCTCAAG 300
QY 301 AAGCAAGGGGGTGAAGAGAGACCAAGCGGACCTTAC 335
DB 301 GAGCAAGGGGGTGAAGAGAGACCAAGCGGACCTTAC 335

RESULT 4

US-09-878-281A-215
Sequence 215, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 215
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-215

Query Match
Best Local Similarity 78.4%; Score 221.2; DB 3; Length 340;
Matches 265; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTGTCAATT 60
DB 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTGTCAATT 60
QY 61 GCGTGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGAGACTATACGTCGGCGGCC 120
DB 61 GCGTGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGAGACTATACGTCGGCGGCC 120

DB 61 GCCCAAGAGGCGCAGAACTGTATCACTCGCTCACCGAGAGACTTACGTGGAGGCGCC 120
QY 121 GATGAAAAACAGAAAGGCGCAGGCTTGGGATATATAGGCGTGGCGGAAAGCGGGTATT 180
DB 121 GATGAAAAACAGAAAGGCGCAGGCTTGGGATATATAGGCGTGGCGGAAAGCGGGTATT 180
QY 181 CACCAACAGCTTGGGGAACACCATGACTTGTATCATCAAGCTTAAAGCGGCTTGTAAAGC 240
DB 181 CACCAACAGCTTGGGGAACACCATGACTTGTATCATCAAGCTTAAAGCGGCTTGTAAAGC 240
QY 241 CCGTGGCATTTAGACCCGGTGAATGCTGCTGCGGTGACGACCTTATGTCATCTCAAG 300
DB 241 CCGTGGCATTTAGACCCGGTGAATGCTGCTGCGGTGACGACCTTATGTCATCTCAAG 300
QY 301 AAGCAAGGGGGTGAAGAGAGACCAAGCGGACCTTACAGAG 338
DB 301 GAGCAAGGGGGTGAAGAGAGACCAAGCGGACCTTACAGAG 338

RESULT 5

US-07-925-695-6
Sequence 6, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME.
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-6

Query Match
Best Local Similarity 63.9%; Score 219.2; DB 2; Length 9511;
Matches 216; Conservative 48; Mismatches 74; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTGTCAATT 60

Db	8342	CUCAAACCCGUCACGGAGAGGGAGCACAUAAGAAAGAAAGAAUCCAAUAAUUCAGGCGTUGUCCUC	8400
Qy	61	GCCTGAAGAAGGCGCGGAAAAGCCATTAAATCGCTGAACAAGAGACTTAATCGTGGCGGCGCC	120
Db	8402	GCCUCAAAAGCCAAAGACUGUACAUACACUCGCTCACUGAGAGACUUUACUGUAGAGGGCAC	8461
Qy	121	GATGAAACAAAGCAAGGGCGACGCTTGGGGATATAGGGCTTGGCGGCAAGCGGGGTATT	180
Db	8462	C AUGCAAAACACAAAGGGCAUUCUGCGGCUACAGGCGUUCGCCGCAAGCGGAGUUU	8522
Qy	181	CACCAAGGCTTGGGGAAACCCATGACTTGTATCATCAAAAGCTTAAAGCGGCTTGTAAAC	240
Db	8522	CACCAACAGCAATGGGGAUAUCCAUAGCAUUAUCAAAGCCCUUGCAGCGGUAAAGCC	8583
Qy	241	CGCTGGCATTGTAAACCCCGGTATGCTGCTGTGCGGTGACCACTTAAGTGTATCTCAGA	300
Db	8582	UGCRRGGGAUCUGGGAGCCUGUUAUUGUUGUGUGGAGACGACCUGUGUCADUCACAGA	8643
Qy	301	AAGCAAGGGGCGTGGAGAGAGCAGCGGGAACCTTAGAG	338
Db	8642	GAGCCAGGUAACGAGAGAGGACGAGCGAAACCTTAGAG	8679

```

1      RESULT 6
2      US-07-925-695-7
3      / Sequence 7, Application US/07925695
4      / Patent No. 5428145
5      /
6      / GENERAL INFORMATION:
7      / APPLICANT: OKAMOTO, Hiroaki
8      / APPLICANT: NAKAMURA, Tetsuo
9      / TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
10     / TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
11     / TITLE OF INVENTION: DETECTION SYSTEMS
12     / TITLE OF INVENTION: DETECTION SYSTEMS
13     /
14     / NUMBER OF SEQUENCES: 9
15     / CORRESPONDENCE ADDRESSES:
16     / ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
17     / STREET: 1850 M Street, N.W., Suite 800
18     / CITY: Washington
19     / STATE: D.C.
20     / COUNTRY: US
21     /
22     / ZIP: 20036
23     /
24     / COMPUTER READABLE FORM:
25     / MEDIUM TYPE: Floppy disk
26     / COMPUTER: IBM PC compatible
27     / OPERATING SYSTEM: PC-DOS/MS-DOS
28     / SOFTWARE: Patent In Release #1.0, Version #1.25
29     /
30     / CURRENT APPLICATION DATA:
31     / APPLICATION NUMBER: US/07/925,695
32     / FILING DATE: 19920807
33     / CLASSIFICATION: 435
34     /
35     / PRIOR APPLICATION DATA:
36     / APPLICATION NUMBER: JP 287402/91
37     / FILING DATE: 09-AUG-1991
38     /
39     / PRIOR APPLICATION DATA:
40     / APPLICATION NUMBER: JP 360441/91
41     / FILING DATE: 05-DEC-1991
42     /
43     / ATTORNEY/AGENT INFORMATION:
44     / NAME: Wellacher, Robert G.
45     / REGISTRATION NUMBER: 20,531
46     / REFERENCE/DOCKET NUMBER: 06/87-48009
47     /
48     / TELECOMMUNICATION INFORMATION:
49     / TELEPHONE: (202) 659-2811
50     / TELEFAX: (202) 659-1462
51     /
52     / TELEX: WUI 64470
53     /
54     / INFORMATION FOR SEQ ID NO: 7:
55     / SEQUENCE CHARACTERISTICS:
56     / LENGTH: 9511 base pairs
57     / TYPE: NUCLEIC ACID
58     / STRANDEDNESS: single
59     / TOPOLOGY: linear
60     /
61     / US-07-925-695-7

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Query Match	64.5%;	Score 219.2;	DB 2;	Length 9511;
Best Local Similarity	77.8%;	Pred. No. 2.8e-64;		
Matches 263;	Conservative	1;	Mismatches 74;	Indels 0;
				Gaps 0;

QY	1	CTTCAACGTCACAAAGAGGGGACATACGGACAGAAAGAAATCCATCATATGTCCTTGCAATT	60
Db	8342	CTCAACCGTCACGGAGAGGGACATTAAGAACAGAAAGAAATCCATATATACAGGCTTGTTCTCT	8401
QY	61	GCCCTGAAGAGGCCCGGAAAGCCATTAAATCGCTCACAGAGAGACTATACGTGGCGGCC	120
Db	8402	GCCCTCAGAGAGCCAGAACTGTCTATACACTCGCTCACTGAGAGACTTTACGTAGAGAGGCC	8461
QY	121	GATGAAAAACAGCAAGGGCCAGGCTTGGCATATAGCGTTGCCGCGCAAGCGGGGTATT	180
Db	8462	CATGACAAACAGCAAAAGGGCAATCTGGGGCTACAGGGGTGCCGCGCAAGCGGGKTTT	8521
QY	181	CACCAACAAGCTTGGGGAAACCATCATGACTTGTTCATCATAAAGCTAAAGCGGCTTGTAAAGC	240
Db	8522	CACCAACAGCATGGGGAAATCAATGACATGTTATCATCAAAACCCCTTGACAGGGGTGTAAAGC	8581
QY	241	CGCTGGCATTTTAAGACCCCGGTGATGCTCGTGTGGGGTGAAGAACCTAAGTGCATCTCAGA	300
Db	8582	TGCGGGGATCTGTGACCCCTGTTAATGTGGTGTGGAGAACCAACCTGTGTCATCTCAGA	8641
QY	301	AAGCAAGGGGGGTGGAGAGAGCAACAGCGGAGCCTTACGAG	338
Db	8642	GAGCCAAAGTACGAGAGAGAGCAAGACCAAAACCTTGAG	8679

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1      RESULT 7
2      US-08-441-971-15
3      : Sequence 15 Application US/08441971
4      : Patent No. 6071893
5      : GENERAL INFORMATION:
6      :   APPLICANT: Tai-An Cha
7      :   TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
8      :   TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
9      :   NUMBER OF SEQUENCES: 147
10     :   CORRESPONDENCE ADDRESS:
11     :     ADDRESS: Wolf Greenfield & Sacks, P.C.
12     :     STREET: 600 Atlantic Avenue
13     :     CITY: Boston
14     :     STATE: Massachusetts
15     :     COUNTRY: USA
16     :     ZIP: 02210
17     :
18     : COMPUTER READABLE FORM:
19     :   MEDIUM TYPE: Diskette, 5.25 inch
20     :   COMPUTER: IBM compatible
21     :   OPERATING SYSTEM: MS-DOS Version 3.3
22     :   SOFTWARE: Wordperfect 5.1
23     :
24     : CURRENT APPLICATION DATA:
25     :   APPLICATION NUMBER: US/08/441,971
26     :   FILING DATE: 16-MAY-1995
27     :   CLASSIFICATION: 435
28     :
29     : PRIOR APPLICATION DATA:
30     :   APPLICATION NUMBER: US/08/221,653
31     :   FILING DATE:
32     :   APPLICATION NUMBER: US/07/881,528
33     :   FILING DATE:
34     :   APPLICATION NUMBER: 07/697,326
35     :   FILING DATE: 8 May 1991
36     :
37     : ATTORNEY/AGENT INFORMATION:
38     :   NAME: Janiuk, Anthony J.
39     :   REGISTRATION NUMBER: 29,809
40     :   REFERENCE/DOCKET NUMBER: C0772/7000
41     :
42     : TELECOMMUNICATION INFORMATION:
43     :   TELEPHONE: (617) 720-3500
44     :   TELEFAX: (617) 720-2441
45     :   TELEX: EZEKIEL
46     :
47     : INFORMATION FOR SEQ ID NO: 15:
48     :   SEQUENCE CHARACTERISTICS:
49     :     LENGTH: 340 nucleotides
50     :     TYPE: nucleic acid
51     :

```

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ms5i10
US-08-441-971-15

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Query Match	64.2%	Score 218.4;	DB 3;	Length 340;
Best Local Similarity	77.6%;	Pred. No. 9.3e-65;		
Matches 264; Conservative	0;	Mismatches 76;	Indels 0;	Gaps 0;

QY	1	CTCTACCGTCAGAGAGGAGCATATGAGACAGAAAGATCATATCTGCTCTGCAATT	60	
Db	1	CTCTACGTCACAGAGGAGCATGAAACGAGAGTCCATTACTCTGCTCTGCACT	60	
QY		61	GCCTGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACATTAAGTGGGCGGCC	120
Db		61	GCTTAGAGAGGCGCCGAATCTGTATACATCACTGATGTGAGAGCTTAGTAAAGGGGGCC	120
QY		121	GATGAGAAAACAGCAAGGCGCAGGCTTGCAGATATAGGCTTGCAGCAAGCGGGGTATT	180
Db		121	CATGACAAACACAAAGGGGCATTCCTCGGGGATACAGGCGTTGCGCGGACCGGAAATGCT	180
QY		181	CACCAACAAGCTTTGGGGAATACCATGACTTTGTTACATCAAAAGCTTAAGCGGCTTTAAAGC	240
Db		181	CACCAACCAGCAAGGGCCAAACAGCCTCAACGTACACGTGAACGGAAAGCCAGACGGCGGTAAACG	240
QY		241	CGCTTGCAATTGTAGACCCCGGTATGCTCGTGTGCGGTGACGACCTAGTGGTCACTCAAG	300
Db		241	CGCGGGCATTTGTTGCTCCACCATGTTGGTGTGGCGGACGACCTGTGGTTGATCTCAAG	300
QY		301	AAGCAAGGGGTGGAGAGAGACCAAGCGGGAACCTAGCAATC	340
Db		301	GAGTCAGGGGGTGCAGGAAGATGAGCGGAACCTGAAGATTC	340

RESULT 8
US-08-221-653-15
; Sequence 15, Application US/08221653
; Patent No. 6190864

1 GENERAL INFORMATION:
2 APPLICANT: Tai-An Cha
3 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
4 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
5 NUMBER OF SEQUENCES: 147
6
7 CORRESPONDENCE ADDRESS:
8 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221, 653

1 FILING DATE:
2 CLASSIFICATION: 435
3 PRIOR APPLICATION DATE:
4 APPLICATION NUMBER: US/07/881,528
5 FILING DATE:
6 APPLICATION NUMBER: 07/657,326
7 FILING DATE: 8 May 1991
8 ATTORNEY/AGENT INFORMATION:
9 NAME: Janiuk, Anthony J.
10 REGISTRATION NUMBER: 29,809
11 REFERENCE/DOCKET NUMBER: C0772/70000
12 TELECOMMUNICATION INFORMATION:
13 TELEPHONE: (617) 720-3500
14 TELEFAX: (617) 720-2441

TEXT: EEXCEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ms5110
US-08-221-653-15

Query Match	64.2%	Score 218.4;	DB 3;	Length 340;
Best Local Similarity	-77.6%;	Pred. No. 9.3e-65;		
Matches 264;	Conservative 0;	Mismatches 76;	Indels 0;	Gaps 0;

Qy	1	CTCTACCGTTCACAGAGAGGGACATACGACAGAAAGAAATCCATCTATCTGCTTGTCAATT	60
Db	1	CTCTACGTCACAGAGAGGGACATCAGAACCGAGAGTCCATCTATCTGCTCTGCTCACT	60
Qy	61	GCCTGAGAGGGCCCGGAAAAGCATTAAATTCGCTGACAGAGAGATTAACTGTGGCGGGCCC	120
Db	61	GCCTGAGAGGGCCCGCAATTGCTATTACATCTCACTGAGAGATGTAACTTAAGGGGGGCC	120
Qy	121	GATGAGAAAACAGCAAGGCGCAGAGCTTGGGATATAGCGTGTGCGGCCAAGCGGGGTATT	180
Db	121	CATGACAAACACMAAGGGGCAATCTCTGGGTTACAGGGGTGTGGCGCGCGAGCGGAGTCT	180
Qy	181	CACCAACAGCTTGGGGAAACCAATGACTTTTATCATCAAGCTTAAAGCGCTTGTAAAGC	240
Db	181	CACCAACAGCAATGGGCAACACGCTCACTGTGTTAGTAAAGGCCAGACGGCGTGTAAAGC	240
Qy	241	CCGTGCAATTGTAGACCCGCGTGAATGCTGATGTCGGGTGACGACCTTAATGTCTATTCAGA	300
Db	241	CGCGGGCAATTGTGTCTCCACCAATGTTGTGTGGGGGACGACCTGTTGTATCTTCAGA	300
Qy	301	AAGCAAGGGGGGTGAGAGAGACACAGCGGAGACTTACAGATC	340
Db	301	GAGTCAGGGGGTCTGAGAGAAATGAGCGGAACTTAAGATC	340

RESULT 9
US-08-442-144A-15
; Sequence 15, Application US/08442144A
; Patent No. 6214583

? GENERAL INFORMATION:
 ? APPLICANT: Tai-An Cha
 ? APPLICANT: Eileen Beall
 ? APPLICANT: Bruce Irvine
 ? APPLICANT: Janice Kolberg
 ? APPLICANT: Michael S. Urdrea
 ? TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 ? TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 ? NUMBER OF SEQUENCES: 148
 ? CORRESPONDENCE ADDRESS:

ADDRESSEE: Chilton Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:
NAME: Doreen Valco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 64.2%; Score 218.4; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 9.3e-65;
Matches 264; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGAGCATACGACAGAAAGATCCATCTATCTGTCTTGCATT 60
DB 1 CTCTACAGTCACAGAGAGGAGCATCAGAACCGAGAGATCCATCTATCTGTCTTGCATT 60
QY 61 GCGTGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACCTATACGTGGCGGCC 120
DB 61 GCGTGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACCTATACGTGGCGGCC 120
QY 121 GATGAAAAACAGAAAGGCGCAGGCTTGCGGATATAGCGCTTGCGCGCAAGCGGGATT 180
DB 121 CATGACAAACAGAAAGGCGCAATCTCGCGGTACAGGCGGTGCGCGCAAGCGGGATT 180
QY 181 CACCAACAGCATGGGCAACACGCTCAGCTGCTACGTGAAGCGGCGCGGTGAACGC 240
DB 181 CACCAACAGCATGGGCAACACGCTCAGCTGCTACGTGAAGCGGCGCGGTGAACGC 240
QY 241 CGGTGCATTGTGATGACCCGCTGATGCTCGTGTGCGGTGACGACCTGTGTCTATCTCAGA 300
DB 241 CGGTGCATTGTGATGCTCCACCAATGTTGTGTGCGGCGGACGACCTGTGTCTATCTCAGA 300
QY 301 AAGCAAGGGGGTGAAGAGGACGAGCGGAGCTACGAGTCT 340
DB 301 GAGTCAGGGGGTGAAGAGATGAGCGGAACCTGAGAGTCT 340

RESULT 10

US-08-441-970-15
; Sequence 15, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-May-1995
; CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-970-15

Query Match 64.2%; Score 218.4; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 9.3e-65;
Matches 264; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGAGCATACGACAGAAAGATCCATCTATCTGTCTTGCATT 60
DB 1 CTCTACAGTCACAGAGAGGAGCATCAGAACCGAGAGATCCATCTATCTGTCTTGCATT 60
QY 61 GCGTGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACCTATACGTGGCGGCC 120
DB 61 GCGTGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACCTATACGTGGCGGCC 120
QY 121 GATGAAAAACAGAAAGGCGCAGGCTTGCGGATATAGCGCTTGCGCGCAAGCGGGATT 180
DB 121 CATGACAAACAGAAAGGCGCAATCTCGCGGTACAGGCGGTGCGCGCAAGCGGGATT 180
QY 181 CACCAACAGCTTGGGAAACCATGATCTTGTATCTCAAACTTAAGGCGCTTGAAGC 240
DB 181 CACCAACAGCATGGGCAACACGCTCAGCTGCTACGTGAAGCGGAGCGGCGGTGAACGC 240
QY 241 CGGTGCATTGTGATGACCCGCTGATGCTCGTGTGCGGTGACGACCTGTGTCTATCTCAGA 300
DB 241 CGGTGCATTGTGATGCTCCACCAATGTTGTGTGCGGCGGACGACCTGTGTCTATCTCAGA 300
QY 301 AAGCAAGGGGGTGAAGAGGACGAGCGGAGCTACGAGTCT 340
DB 301 GAGTCAGGGGGTGAAGAGATGAGCGGAACCTGAGAGTCT 340

RESULT 11

US-08-441-971-16
; Sequence 16, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-971-16

Query Match 64.1%; Score 218; DB 3; Length 340;

Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1 CTTACCGTCA CAGAGGAGCATACGACAGAAAGATCTATCTGTCTTCAATT 60
DB 1 CTTACGAGTCA CAGAGGAGCATACGACAGAAAGATCTATCTGTCTTCAATT 60
QY 61 GCTTGAAGAGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTCGGGCGCC 120
DB 61 GCTTGAAGAGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTCGGGCGCC 120
QY 121 CATGAAAAACAGAGAGGCGCAGCTTGCAGATATAGCGCTTCCCGCAAGCGGGGTATT 180
DB 121 CATGAAAAACAGAGAGGCGCAGCTTGCAGATATAGCGCTTCCCGCAAGCGGGGTATT 180
QY 181 CACCAAGAGCTTGGGGAACACCATGACTTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGACTTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
QY 241 CGCTGGCATTTGTAGACCCCGGTGATGCTCGTGTGCGGTGACGACTAGTGTCTCATCTCADA 300
DB 241 CGCTGGCATTTGTAGACCCCGGTGATGCTCGTGTGCGGTGACGACTAGTGTCTCATCTCADA 300
QY 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGAGCTTAAGAG 338
DB 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGAGCTTAAGAG 338

RESULT 12
US-08-221-653-16
Sequence 16, Application US/08221653
Patent No. 6190864

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston

STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-221-653-16

Query Match 64.1%; Score 218; DB 3; Length 340;

Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1 CTTACCGTCA CAGAGGAGCATACGACAGAAAGATCTATCTGTCTTCAATT 60
DB 1 CTTACGAGTCA CAGAGGAGCATACGACAGAAAGATCTATCTGTCTTCAATT 60
QY 61 GCTTGAAGAGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTCGGGCGCC 120
DB 61 GCTTGAAGAGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTCGGGCGCC 120
QY 121 CATGAAAAACAGAGAGGCGCAGCTTGCAGATATAGCGCTTCCCGCAAGCGGGGTATT 180
DB 121 CATGAAAAACAGAGAGGCGCAGCTTGCAGATATAGCGCTTCCCGCAAGCGGGGTATT 180
QY 181 CACCAAGAGCTTGGGGAACACCATGACTTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGACTTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
QY 241 CGCTGGCATTTGTAGACCCCGGTGATGCTCGTGTGCGGTGACGACTAGTGTCTCATCTCAGA 300
DB 241 CGCTGGCATTTGTAGACCCCGGTGATGCTCGTGTGCGGTGACGACTAGTGTCTCATCTCAGA 300
QY 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGAGCTTAAGAG 338
DB 301 AAGCAAGGGGGTGGAGAGAGACCAAGCGGAGCTTAAGAG 338

RESULT 13
US-08-442-144A-16
Sequence 16, Application US/08442144A
Patent No. 6214583

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
ADDRESSEE: Eileen Beall
APPLICANT: Bruce Irvine

```

; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESS: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yanko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-442-144A-16

```

```

Query Match      64.1%; Score 218; DB 3; Length 340;
Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

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QY      1 CTCTACCGTCACAGAGAGGAGACATACGACAGAAAGATCCTATCTGTCTTGCATT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      1 CTCTACAGTCACGAGAGGAGCATGACGAGAGGTCATCTATCTGTCTTGCATT 60
QY      61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGACATTAATAGTGGGGGCC 120
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      61 GCGTGAAGAGGCGCTCGAACTGCACTACACTGACTGAGAGGCTGTATGATGAGGGGCC 120
QY      121 GATGAAAAACAGCAAGGCGCAGGCTTGCAGATATAGCGCTTCCGCGCAAGCGGGTATT 180
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      121 CATGACAAACAGCAAGGCGCATCTCGCGGTAAGAGCTAAAGCGGCGATGTCT 180
QY      181 CACCAAGCTTTGGGGAAACCATGACTTTGTTACATCAAAAGCTTAAAGCGCTTTAAAGC 240
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      181 CACCAACGACATGGGTAAACACTCACTGCTACGTAAGCTAAAGCGGCGATGTCT 240
QY      241 CGCTGGCATTTGAGACCCGGTGATGCTGCTGTGCGGTGACAGACTTAAGTGTCTATCTCAGA 300
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      241 CGCGGGCATTTGTGCCCCCACCACATGTGTGTGCGCGGACGACCTTAAGTGTCTATCTCAGA 300
QY      301 AAGCAAGGGGTGAGAGAGACCAAGCGGAGCTTACGAG 338
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      301 GAGTCAAGGGGTGAGAGAGATGACGAACCTTGAAG 338

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RESULT 14

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US-08-441-970-16
; Sequence 16, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESS: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-441-970-16

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```

Query Match      64.1%; Score 218; DB 3; Length 340;
Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

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```

QY      1 CTCTACCGTCACAGAGAGGACATACGACAGAAAGATCCTATCTGTCTTGCATT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      1 CTCTACAGTCACGAGAGGAGCATGACGAGAGGTCATCTATCTGTCTTGCATT 60
QY      61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGACATTAATAGTGGGGGCC 120
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      61 GCGTGAAGAGGCGTGAATCGCATACACTGACTGAGAGGCTGTATGATGAGGGGCC 120
QY      121 GATGAAAAACAGCAAGGCGCAGGCTTGCAGATATAGCGCTTCCGCGCAAGCGGGTATT 180
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      121 CATGACAAACAGCAAGGCGCATCTCGCGGTAAGAGCTAAAGCGGCGATGTCT 180
QY      181 CACCAAGCTTTGGGGAAACCATGACTTTGTTACATCAAAAGCTTAAAGCGCTTTAAAGC 240
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      181 CACCAACGACATGGGTAAACACTCACTGCTACGTAAGCTAAAGCGGCGATGTCT 240
QY      241 CGCTGGCATTTGAGACCCGGTGATGCTGCTGTGCGGTGACAGACTTAAGTGTCTATCTCAGA 300
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      241 CGCGGGCATTTGTGCCCCCACCACATGTGTGTGCGCGGACGACCTTAAGTGTCTCAGA 300
QY      301 AAGCAAGGGGTGAGAGAGACCAAGCGGAGCTTACGAG 338
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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Db 301 GAGTCAGGGGTGAGAGGATGAGGAACTGAGAG 338

RESULT 15

US-08-836-075A-71
; Sequence 71, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-71

Query Match 62.8%; Score 213.6; DB 3; Length 340;
Best Local Similarity 76.8%; Pred No. 4,1e-63;
Matches 261; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGGAGCATACGACAGAGAATCCATCTATCTGTCTTGTCAATT 60
DB 1 CTCAACCGTCACAGAGGAGGATATAAGAACTGAGAGTCCATATACCTGGCTGCTCTT 60
QY 61 GGCTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGAGACTATAGCTGGCGGCC 120
DB 61 ACCCGAGAGGCGCCGAGCTGCATCATTCATTAACTGAGAACTTTAGTGAGGAGGCGC 120
QY 121 GATGAAAAACAGCAAGGCGCAGGCTTGCGGATATAGGCGTTGCGGCAAGCGGGATAT 180
DB 121 CATGATGAACAGCAAGGCGCACTCTCGCGGATACAGGCGTTGCGCGCTAGCGAGTGT 180
QY 181 CACCAACAGCTTGGGAGACACCATGACTTGTTCATCAAAAGCTAAAGCGGCTTGTAAAGC 240
DB 181 CACCAACAGCTATGGGAGACACCATGACTTGTTCATGAAAGCGGCTTGTAAAGC 240

QY 241 CGCTGCAATTGTAGACCCGGTGATGCTGCTGCGGAGTACAGACCTAGTCACTCTCAGA 300
DB 241 TCGGGCAATTGTGTGCCCCCAGAGATCTGTGTGCGGCAATACCTGTGTTCATCTCAGA 300
QY 301 AAGCAAGGAGGCTGAGAGAGACCAAGCGGAGCTTACGAGTC 340
DB 301 GAGTCAGGAGGCTGAGAGAGACCAAGCGGAGCTTACGAGTC 340

Search completed: January 11, 2006, 14:46:44
Job time: 101.519 secs

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ANTI-SENSE: NO
US-08-836-075A-101

Query Match 99.5%; Score 333.4; DB 3; Length 335;
Best Local Similarity 100.0%; Pred. No. 5,1e-91;
Matches 335; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTCTCTACTGAGAGACATACGAGAGAAATCCATCTATYTTGGCTTGTCAATT 60
DB 1 CTCCTCTCTACTGAGAGACATACGAGAGAAATCCATCTATYTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAGGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCCGCAAGCGGGTATT 180
DB 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCCGCAAGCGGGTATT 180
QY 181 CACCAAGCTTGGGGAACACCATGATCTTGTACATCAAGGCCAARGCAGCTTGTAAAGC 240
DB 181 CACCAAGCTTGGGGAACACCATGATCTTGTACATCAAGGCCAARGCAGCTTGTAAAGC 240
QY 241 YGCTGGCATTTGTTGACCCGGTGATGCTGTGTGCGGCGACGACTAGTGTCTATCTAGA 300
DB 241 YGCTGGCATTTGTTGACCCGGTGATGCTGTGTGCGGCGACGACTAGTGTCTATCTAGA 300
QY 301 GAGCAAGGGGGTATAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335
DB 301 GAGCAAGGGGGTATAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335

RESULT 2

US-08-836-075A-105

Sequence 105, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 105:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-105

Query Match 99.2%; Score 309; DB 3; Length 340;
Best Local Similarity 94.0%; Pred. No. 1.2e-83;
Matches 315; Conservative 5; Mismatches 15; Indels 0; Gaps 0;

QY 1 CTCCTCTCTACTGAGAGACATACGAGAGAAATCCATCTATYTTGGCTTGTCAATT 60
DB 1 CTCCTCTCTACTGAGAGAGGATATACGAGAGAAATCCATCTATYTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAGGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCCGCAAGCGGGTATT 180
DB 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCCGCAAGCGGGTATT 180
QY 181 CACCAAGCTTGGGGAACACCATGATCTTGTACATCAAGGCCAARGCAGCTTGTAAAGC 240
DB 181 CACCAAGCTTGGGGAACACCATGATCTTGTACATCAAGGCCAARGCAGCTTGTAAAGC 240
QY 241 YGCTGGCATTTGTTGACCCGGTGATGCTGTGTGCGGCGACGACTAGTGTCTATCTAGA 300
DB 241 YGCTGGCATTTGTTGACCCGGTGATGCTGTGTGCGGCGACGACTAGTGTCTATCTAGA 300
QY 301 GAGCAAGGGGGTATAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335
DB 301 GAGCAAGGGGGTATAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335

RESULT 3

US-08-836-075A-99

Sequence 99, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 99:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-99

Query Match 90.9%; Score 304.6; DB 3; Length 340;
Best Local Similarity 93.4%; Pred. No. 2.6e-82;
Matches 313; Conservative 4; Mismatches 18; Indels 0; Gaps 0;

QY 1 CTCACCTGTCACTGAGAGACATACGAGAGAAATCCATCTAATCTTGGCTTGTCAATT 60
DB 1 CTCACCTGTCACTGAGAGACATACGAGAGAAATCCATCTAATCTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACGAAAGGCCGCGCTGGGATATAGGCGTTCGCCGCAACGGGGATTT 180
DB 121 GATGAAAAACGAAAGGCCGCGCTGGGATATAGGCGTTCGCCGCAACGGGGATTT 180
QY 181 CACCACAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARCGAGCTGTAAAGC 240
DB 181 CACCACAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARCGAGCTGTAAAGC 240
QY 241 YGTGGCATTTGTTGACCCGATGCTGTGTGCGGACGACCTAGTGTCTCAGA 300
DB 241 CGCTGGCATTTGTTGACCCGATGCTGTGTGCGGACGACCTAGTGTCTCAGA 300
QY 301 GAGCAAGGGGTAGAGAGACACGCGGAGCTTAC 335
DB 301 AAGCAAGGGGTAGAGAGACACGCGGAGCTTAC 335

RESULT 4

US-09-878-281A-215
Sequence 215, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878, 281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 215
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-215

Query Match 67.0%; Score 224.6; DB 3; Length 340;
Best Local Similarity 79.0%; Pred. No. 3.9e-58;
Matches 263; Conservative 3; Mismatches 67; Indels 0; Gaps 0;

QY 1 CTCACCTGTCACTGAGAGACATACGAGAGAAATCCATCTAATCTTGGCTTGTCAATT 60
DB 1 CTCACCTGTCACTGAGAGAGATATAGAGAGAAATCCATCTAATCTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120

DB 61 GCCCGAAGAGGCCCGGAAATCTGATACCTGCTCACAGAGACTTACGTGGAGGCGCC 120
QY 121 GATGAAAAACGAAAGGCCGCTGGGATATAGGCGTTCGCCGCAAGCGGGATTT 180
DB 121 CATGATTAACGACAAAGGCAATCTCGGTTACAGGCGTTCGCCGCAAGCGGGATTT 180
QY 181 CACCACAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARCGAGCTGTAAAGC 240
DB 181 CACCACAAGCTTGGGGAATACATGACGTGTATCAATCAAGCCCTTGACAGCTTAAAGC 240
QY 241 YGTGGCATTTGTTGACCCGATGCTGTGTGCGGACGACCTAGTGTCTCAGA 300
DB 241 CGCTGGCATTTGTTGACCCGATGCTGTGTGCGGACGACCTAGTGTCTCAGA 300
QY 301 GAGCAAGGGGTAGAGAGACACGCGGAGCTTAC 333
DB 301 GAGCAAGGGGTAGAGAGACACGCGGAGCTTAC 333

RESULT 5

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 66.6%; Score 223; DB 3; Length 340;
Best Local Similarity 78.7%; Pred. No. 1.2e-57;
Matches 262; Conservative 3; Mismatches 68; Indels 0; Gaps 0;

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Oy 1 CTCACCTGTCACTAGAGAGACATACGAGCAGAAAGATCCATCTAYTGGCTTGTCAATT 60
Db 1 CTCACCTGTCACTAGAGAGAGATATAAGATCTAGAGATCCATATCTGGCTGTCTCTT 60
Oy 61 GCCCGAAGAGGCCCGGAGAGCCATTAAATCACTGACAGAGAGACTAATAGTGGCGGCC 120
Db 61 ACCCGAGAGAGCCCGGAGCTGCATTCATTCAATTAAGAGACTTACGTGGAGGGGCC 120
Oy 121 GATGAAAACAGCAAGAGCCAGGCTGTGGGATATAGGGGCTGGCCGGAAGCGGGTATT 180
Db 121 CATGATGACAGCAAGAGCCAGTCTGTGGATACAGGGCTGGCCGCTAGCGAGTCT 180
Oy 181 CACCAACAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARGCAGCTTTAAAGC 240
Db 181 CACCAACAGTATGGGGAACACCATGACTTGTATGTAAGCCCTCGCAGCTTTAAAGC 240
Oy 241 YGTGGCATTGTTGACCCCGGTGATCTGTGTGCGGCAAGCACTAGTGTATCTCA 300
Db 241 TGGCGGCAATTGTTGCCCCCAGCATCTGTGTGCGGCAAGCACTAGTGTATCTCA 300
Oy 301 GAGCAAGGGGGTAGAGAGACCGAGCACT 333
Db 301 GAGTCAAGGGGCTGAGAGAGACGAGCAACT 333
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```
RESULT 6
US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELE: WUI 64470
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-6
```

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Query Match 66.0%; Score 221; DB 2; Length 9511;
Best Local Similarity 64.6%; Pred. No. 1,6e-56;
Matches 215; Conservative 49; Mismatches 69; Indels 0; Gaps 0;
Oy 1 CTCACCTGTCACTAGAGAGACATACGAGCAGAAAGATCCATCTAYTGGCTTGTCAATT 60
Db 8342 CUCAACCGUACGAGAGAGGACAUAGAACAGAAAGAUCCAUUUAUACAGCGUGUUCU 8401
Oy 61 GCCCGAAGAGGCCCGGAGAGCCATTAAATCACTGACAGAGAGACTAATAGTGGCGGCC 120
Db 8402 GCTGCAAGAGCCAGAACUUGCAUACACUCUACAGAGAGACUUAUCUAGAGAGGCC 8461
Oy 121 GATGAAAACAGCAAGAGCCAGGCTGTGGATATAGGGGCTGGCCGGAAGCGGGTATT 180
Db 8462 CAUACAAACAGCAAGAGGCAUUCUCGCGUACAGCGUGUGCCGCAAGCGGKUUU 8521
Oy 181 CACCAACAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARGCAGCTTTAAAGC 240
Db 8522 CACCAACAGCAUUGGGAUUAACAUAGACAUUUAUCAAAGCCUUCACAGCGUUAAGGC 8581
Oy 241 YGTGGCATTGTTGACCCCGGTGATCTGTGTGCGGCAAGCACTAGTGTATCTCA 300
Db 8582 UGCRGGAUGCGGACCCUGUUAUGUGUGUGAGAGACGACCUUGUUAUUCUAGA 8641
Oy 301 GAGCAAGGGGGTAGAGAGACCGAGCACT 333
Db 8642 GAGCCAAAGUACAGAGAGACGAGCAAGCAACU 8674
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```
RESULT 7
US-07-925-695-7
; Sequence 7, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELE: WUI 64470
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
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; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-7

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Query Match	66.0%;	Score 221;	DB 2;	Length 9511;
Best Local Similarity	78.1%;	Pred. No. 1.6e-56;		
Matches 260;	Conservative	4;	Mismatches 69;	Indels 0;
			Gaps	0

QY	1	CTCCACTCTCACTGAGAGACATATCGGACAGAAATTCATCTCTATTTGGCTGTGCATTT	60
Db	8342	CTCAACCTCAACGAGAGGGAATTAAGAACAGAAATTCATATATCAAGCTTGTCTCT	8401
QY	61	GCCCGAAGAGGCCCGAAGGCCATTAATCACTGACAGAGACTATATCGTGGCGGCC	120
Db	8402	GCCTCAAAACCCAGAACTGTCTATCACTCGCTCACTAGAGACTTTACGTAGAGGGGCC	8461
QY	121	GATGAAATAACAGCAAAAGCCAGGCTCGCGGATATATGGGGTTGGCGCGAAGCGGGTATT	180
Db	8462	CATGACAAACAGCAAAAGGGCAATCTCGCGCTACAGGGCTTGCAGCGAGCGKGTTTY	8521
QY	181	CACCAAGCTTTGGGGAACACCATGACTTTTATCATTAAGGCCAARGCAGCTTTGAAGC	240
Db	8522	CACCAACGACATGGGGAATACCATGACATGTTACATCAAGCCCTTGCAGCGGTGAAGC	8581
QY	241	YGTGGCACTTTTGAACCCGGTGATCTCGTGGCGGACAGCACTAGTGTATCTCA	300
Db	8582	TGCGGGATCTGTGAACCTCTTTATTTGTGTGTGTGAACAACAACCTGTGTCTATCTCAG	8641
QY	301	GAGCAAGGGGGGTAGAGAGACACGCGAGACTT	333
Db	8642	GAGCCAAAGTAAACGAGAGAGACGAGCAAACTT	8674

```

RESULT 8
US-09-878-281A-145
: Sequence 145, Application US/09878281A
: Patent No. 6762024
: GENERAL INFORMATION:
: APPLICANT: Immunogenetics N.V.
: TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
: FILE REFERENCE: 35
: CURRENT APPLICATION NUMBER: US/09/878,281A
: CURRENT FILING DATE: 2001-06-12
: NUMBER OF SEQ ID NOS: 284
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 145
: LENGTH: 340
: TYPE: DNA
: ORGANISM: hepatitis C virus
: US-09-878-281A-145

```

Query Match	64.7%	Score 216.6;	DB 3;	Length 340;
Best Local Similarity	77.0%;	Pred. No. 1e-55;		
Matches 258;	Conservative 4;	Mismatches 73;	Indels 0;	Gaps 0;

[illegible]

QY	24	YGCCTGCAATTTGTTGACCCGCGTATCTCTGTGTCGCGACA	CACCTAATGCGTCATCTAGA	3 00
	:			
Db	241	TGGGGGATATATTGCCCCACGATCTGTGTGTGCGCGACAT	CTAATGTTCATCTAGA	3 00
QY	301	GACCAAGGGGGTGTGAGAGACCAACGACCTTAC		335
	:			
Db	301	GAGTCAGGGGACCGAGAGAGACGAGGGAACTTAC		335

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RESULT 9
US-08-441-971-16
; Sequence 16, Application US/08441971
; Patent No. 6071693
;
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
;
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
;
; TELEX: EZEKTEL
;
; INFORMATION FOR SEQ ID NO: 16:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
;
US-08-441-971-16

```

Query Match	64.1%;	Score 214.6;	DB 3;	Length 340;
Best Local Similarity	76.9%;	Pred. No. 4.1e-55;		
Matches 256;	Conservative 4;	Mismatches 73;	Indels 0;	Gaps 0

QY CTCACGTGTCATCGAGAGAGACATACGAGACAGAAAGATCCATCAATYTGCGTTCAAAT 60
Db 1 CTTAATAGTCAACGAGAGAGGACATCAGAACCGAGAGATCCATCTATCTGCTCTTCACT 60
QY 61 GCCCGAAGAGGCCCGGAGAGCCATTAAATCTGTCAGAGAGACTTAATCGTGGCGCGCC 120
Db 61 GCGTGAAGAGGCTTCGAATGCGCATACCTCACTAATGAGAGGCTTGATCCATAGAGGAGGCC 120

Qy 121 GATGAAAAACAGCAAGGCCAGCCTGCGATATATAGCGCTTCCGCGCAAGCGGGTATT 180
Db 121 CATGCAAAACAGCAAGGGCAATCCTGCGGGGTACAGCGCTTGCCGCGGAGGGAGTCT 180
Qy 181 CACCAAGCTTGGGGAAACCATGACTTGTATCAATCAAGGCCAARGCAGCTTGTAAAGC 240
Db 181 CACCAAGCAGATGGGTAAACACTGCTGCTACGTAAGTAAAGGGGAGATGTAAAGC 240
Qy 241 YGCTGGCATTTGTTGACCCGGTATGCTGTGCGGCGACGACTAGTGTATCTCAGA 300
Db 241 CGCGGGCATTTGTTGCCCCCACCATCTTGTGTGCGGCGACGACTAGTGTATCTCAGA 300
Qy 301 GAGCAAGGGGTAGAGAGAGACGACGACCT 333
Db 301 GAGTCAAGGGGTGAGAGAGATGACGAAACCT 333

RESULT 10
US-08-221-653-16
; Sequence 16, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janluk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-221-653-16

Query Match 64.1%; Score 214.6; DB 3; Length 340;
Best Local Similarity 76.9%; Pred. No. 4.1e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

Qy 1 CTCACGTCTACTGAGAGACATACGAGACAGAAATCCATCTATYYGGCTTGTCATT 60
Db 1 CTTTACAGTCAAGAGAGGACATCAAAACGAGAGTCCATCTATCTGTCTCTTCACT 60

Qy 61 GCCGAAGAGCCCGGAAGCCATTAAATCACTGACAGAGACTATACCTGCGCGGCC 120
Db 61 GCTTGAAGAGGCTGCAACTGCACTACACTGACTGAGAGGCTGTACTAGGGGGGCC 120
Qy 121 GATGAAAAACAGCAAGGCCAGGCTGCGATATATAGCGCTTCCGCGCAAGCGGGTATT 180
Db 121 CATGCAAAACAGCAAGGGCAATCCTGCGGGTACAGCGCTTGCCGCGGAGGGAGTCT 180
Qy 181 CACCAAGCTTGGGGAAACCATGACTTGTATCAATCAAGGCCAARGCAGCTTGTAAAGC 240
Db 181 CACCAAGCAGATGGGTAAACACTGCTGCTACGTAAGTAAAGGGGAGATGTAAAGC 240
Qy 241 YGCTGGCATTTGTTGACCCGGTATGCTGTGCGGCGACGACTAGTGTATCTCAGA 300
Db 241 CGCGGGCATTTGTTGCCCCCACCATCTTGTGTGCGGCGACGACTAGTGTATCTCAGA 300
Qy 301 GAGCAAGGGGTAGAGAGAGACGACGACCT 333
Db 301 GAGTCAAGGGGTGAGAGAGATGACGAAACCT 333

RESULT 11
US-08-442-144A-16
; Sequence 16, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-442-144A-16

Query Match 64.1%; Score 214.6; DB 3; Length 340;
Best Local Similarity 76.9%; Pred. No. 4.1e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

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QY 1 CTCACCTCTCTGAGAGACATACGACGAGAAATCCATCTATYTTGGCTTGCATT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1 CTTACACTCTACGAGAGAGACATCAGACGAGAGATCCATCTATCTGCTCTTCACT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GCCGGAAGAGGCCCGGAGAGCCATTAATCACTGACAGAGAGACTATCGTGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 61 GCTTGAGAGAGGCTCAACTGCTCACTCACTGAGAGCTGTACGTAGGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 GATGAAAAACAGCAAGGCCAGGCTGCGATATAGCGTTGCCGCGAAGCGGGTATT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 121 CATGCAAAACAGCAAGGGCAATCTGCGGGTACAGGCGTTGCCGCGAGGGAGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 CACCAAGCTTTGGGGAACACCATGACTTTTATCATCAAGGCAARGAGCTTTAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 181 CACCACGAGATGGGTAAACACACTGCTGCTGAAAGCTAAAGCGCATGTAAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 YGCTGGCATTTGTGACCCGGTATGCTGTGTGGGGGAGAGACCTAGTGTCTCAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 241 CGCGGCAATTTGTCCTCCACCATTTGTGTGTGGGAGAGACCTAGTGTCTCAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 301 GAGCAAGGGGGTAAAGAGAGACCAAGCGAGACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 301 GAGTCAAGGGGTGAGAGAGATGAGCGAAACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

RESULT 12
US-08-441-970-16
; Sequence 16, Application US/08441970
; Patent No. 6297370

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-970-16

Query Match 64.1%; Score 214.6; DB 3; Length 340;
Best Local Similarity 76.9%; Pred. No. 4.1e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

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QY 1 CTCACCTCTCTGAGAGACATACGAGAGAAATCCATCTATYTTGGCTTGCATT 60
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Db 1 CTTACAGTCAAGAGAGAGACATCAGACGAGAGATCCATCTATCTGCTCTTCACT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GCCGGAAGAGGCCCGGAGAGCCATTAATCACTGACAGAGAGACTATACGTCGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 61 GCTTGAGAGAGGCTGAACTGCTCACTCACTGAGAGCTGTACGTAGGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 GATGAAAAACAGCAAGGCCAGGCTGCGATATAGCGTTGCCGCGAAGCGGGTATT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 121 CATGCAAAACAGCAAGGGCAATCTGCGGGTACAGGCGTTGCCGCGAGGGAGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 CACCAAGCTTTGGGGAACACCATGACTTTTATCATCAAGGCAARGAGCTTTAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 181 CACCACGAGATGGGTAAACACACTGCTGCTGAAAGCTAAAGCGCATGTAAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 YGCTGGCATTTGTGACCCGGTATGCTGTGTGGGGGAGAGACCTAGTGTCTCAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 241 CGCGGCAATTTGTCCTCCACCATTTGTGTGTGGGAGAGACCTAGTGTCTCAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 301 GAGCAAGGGGGTAAAGAGAGACCAAGCGAGACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 301 GAGTCAAGGGGTGAGAGAGATGAGCGAAACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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RESULT 13
US-07-925-695-4
; Sequence 4, Application US/07925695
; Patent No. 5428145

GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2693 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-4

Query Match 64.1%; Score 214.6; DB 2; Length 2693;
Best Local Similarity 76.9%; Pred. No. 8.6e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

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OY 1 CTCGACTGTGCTGAGAGACATACGAGACAGAGAAATCCATCTTAYTGGCTTGTCAATT 60
DB 2334 CTCACCCCTGACTGAGAGACATGAGACTGAGAGATCCATATATCGGGCTTGTTCCTT 2393
OY 61 GCCCGAAGAGGCCCGGAGAGCCCATTTAAATCACTGACAGAGAGACTATACGTGGCGGCC 120
DB 2394 GCCGAGAGAGGCCCGACACTGCTATCACTGACTGACTGAGAGACTTTACGTGGAGGGCC 2453
OY 121 GATGAAAAACAGAAAGCCGAGGCTTGGGATATAGCGCTTGGCCGCAAGCGGGTATT 180
DB 2454 CATGTTCAACAGACAGAGGCGCCAGACCTGGCGGTACAGGCGTTGCCGCGCAGCGGGTCT 2513
OY 181 CACCAAGCTTGGGGAACACCATGATCTTGTATCAATCAAGGCAARGAGGCTTGTAAAGC 240
DB 2514 TACCACTGACATGGGGAACACCATGATCTTGTAAAGCTTAAAGCGCTGTAAAGC 2573
OY 241 YGCTGGCATTTGTTGACCCCGGTGATGCTGCTGCGGCAAGCACTTAACTGATCTAGA 300
DB 2574 TGCAGGAGTAAATGCGCCCAACAATGCTGTATGCGCGCATGCTTGTGTCATCTCAGA 2633
OY 301 GAGCAAGGGGGTGAAGAGAGACGAGCAAGCTT 333
DB 2634 GAGCCAGGGGACCGAGAGAGAGAGCAAGCGGAACCT 2666
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RESULT 14

US-07-925-695-1
Sequence 1, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:

NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-1

Query Match 64.1%; Score 214.6; DB 2; Length 9589;
Best Local Similarity 63.4%; Pred. No. 1.4e-54;
Matches 211; Conservative 49; Mismatches 73; Indels 0; Gaps 0;

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OY 1 CTCGACTGTGCTGAGAGACATACGAGACAGAGAAATCCATCTTAYTGGCTTGTCAATT 60
DB 8341 CUCACCGUACUGAGAGACAUACAGACUGAGAGAUCCAUUNUAGCGGUUGUCUU 8400
OY 61 GCCCGAAGAGGCCCGGAGAGCCCATTTAAATCACTGACAGAGACTTAACTTGGCGGCC 120
DB 8401 GCCCGAAGAGGCCCGACACUCCACUACACUACUACUACUACUACUACUACUACUACU 8460
OY 121 GATGAAAAACAGAAAGCCGAGGCTTGGGATATAGCGCTTGGCCGCAAGCGGGTATT 180
DB 8461 CAUGUUCACAGCAAGGCGCCAGACUCCGUGUACAGGCGUGGCCCGCCAGCGGGUGCU 8520
OY 181 CACCAAGCTTGGGGAACACCATGATCTTGTATCAATCAAGGCAARGAGGCTTGTAAAGC 240
DB 8521 UACCAUAGACUGGGGAACACCAUACAUCAUGUAAAGCCUUAAGCGGCUUUAAGGC 8580
OY 241 YGCTGGCATTTGTTGACCCCGGTGATGCTGCTGCGGCAAGCACTTAACTGATCTAGA 300
DB 8581 UGCAGGAGUUAUUGCGCCCAACAUGCUGUAUGCGGCAUGACUUGUUCUACUUCAGA 8640
OY 301 GAGCAAGGGGGTGAAGAGAGACGAGCAAGCTT 333
DB 8641 GAGCCAGGGGACCGAGAGAGAGAGCAAGCGGAACCU 8673
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RESULT 15

US-07-925-695-2
Sequence 2, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91

FILED DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2

Query Match 64.1%; Score 214.6; DB 2; Length 9589;
Best Local Similarity 76.9%; Pred. No. 1.4e-54;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;
QY 1 CTCACCTGTCACTGAGAGACATACGACAGAGAAATCCATCTAATYTGCTTGTCAATT 60
DB 8341 CTCACCTGTCACTGAGAGACATACGACAGAGAAATCCATCTAATYTGCTTGTCTT 8400
QY 61 GCCCGAGAGAGGCCCGGAGGCCATTAAATCACTGACAGAGAGACTTATACGTGGCGGCC 120
DB 8401 GCCCGAGAGAGGCCCGGAGGCCATTAAATCACTGACAGAGAGACTTATACGTGGCGGCC 8460
QY 121 GATGAAAACAGCAAGGCCCGCTGGGATATATGCGGTTGCCGCGCAAGCGGGTATT 180
DB 8461 CATGTTCAACAGCAAGGCCCGCTGGGATATATGCGGTTGCCGCGCAAGCGGGTATT 8520
QY 181 CACCAAGAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARGCAGCTTGTAAAGC 240
DB 8521 TACCACTAGCATGGGGAACACCATGACTTGTATCATCAAGGCCAARGCAGCTTGTAAAGC 8580
QY 241 YGCTGGCATTTGTTGACCCGGTGATGCTGCTGTCGGCGACGACCTTAGTGTATCTCAGA 300
DB 8581 TGCAGGGATTAATTTGGCCCAACATGCTGTATGCGCGATGACTTGTGTATCTCAGA 8640
QY 301 GAGCAAGGGGTAAGAGGAGACCAAGCGAGACTT 333
DB 8641 GAGCAAGGGGTAAGAGGAGACCAAGCGAGACTT 8673

Search completed: January 11, 2006, 14:46:44
Job time : 99.0405 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 136.291 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-103
Perfect score: 461
Sequence: 1 cgtacagcccccagaccaccc.....taggcaccacgcgcgtc 461

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/ptodata/1/ina/5.COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq:*
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8: /cgn2_6/ptodata/1/ina/RE.COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	461	100.0	461	US-08-836-075A-103	Sequence 103, App
2	415.4	90.1	9589	US-07-925-695-1	Sequence 1, Appli
3	415.4	90.1	9589	US-07-925-695-2	Sequence 2, Appli
4	405.8	88.0	526	US-08-240-547-29	Sequence 29, Appli
5	400.2	86.8	1195	US-08-836-075A-75	Sequence 75, Appli
6	399	86.6	9511	US-07-925-695-6	Sequence 6, Appli
7	399	86.6	9511	US-07-925-695-7	Sequence 7, Appli
8	398.6	86.5	652	US-08-836-075A-59	Sequence 59, Appli
9	396.6	86.0	2116	US-08-191-160-21	Sequence 21, Appli
10	395	85.7	780	US-08-474-700B-45	Sequence 45, Appli
11	393.4	85.3	713	US-09-763-836-1	Sequence 1, Appli
12	393.4	85.3	923	US-08-869-380-1	Sequence 1, Appli
13	393.4	85.3	923	PCT-US95-13552-14	Sequence 14, Appli
14	393.4	85.3	1499	US-08-324-977-3	Sequence 3, Appli
15	393.4	85.3	1499	US-08-384-616-3	Sequence 3, Appli
16	393.4	85.3	1499	US-08-904-686A-3	Sequence 3, Appli
17	393.4	85.3	1499	US-09-315-850-3	Sequence 3, Appli
18	393.4	85.3	1863	US-08-470-426B-14	Sequence 14, Appli
19	393.4	85.3	9416	US-08-324-977-1	Sequence 1, Appli
20	393.4	85.3	9416	US-08-384-616-1	Sequence 1, Appli
21	393.4	85.3	9416	US-08-904-686A-1	Sequence 1, Appli
22	393.4	85.3	9416	US-09-315-850-1	Sequence 1, Appli
23	393.4	85.3	9416	US-08-823-895A-27	Sequence 27, Appli
24	393.4	85.3	9472	US-08-150-204E-96	Sequence 96, Appli

25	391.8	85.0	9595	US-09-014-416-4	Sequence 4, Appli
26	391.8	85.0	9599	US-09-014-416-6	Sequence 6, Appli
27	391	84.8	9379	US-08-444-818-176	Sequence 176, App
28	391	84.8	9401	PCT-US91-02225-9	Sequence 9, Appli
29	391	84.8	9413	US-09-827-688-6	Sequence 6, Appli
30	390.2	84.6	686	US-08-988-521B-37	Sequence 37, Appli
31	390.2	84.6	686	US-08-397-220B-25	Sequence 25, Appli
32	390.2	84.6	686	US-08-650-093C-25	Sequence 25, Appli
33	388.6	84.3	504	US-08-191-160-18	Sequence 18, Appli
34	388.6	84.3	665	US-08-444-818-94	Sequence 94, Appli
35	388.6	84.3	665	US-08-444-818-95	Sequence 95, Appli
36	388.6	84.3	665	US-08-444-818-96	Sequence 96, Appli
37	388.6	84.3	665	US-08-444-818-98	Sequence 98, Appli
38	388.6	84.3	665	US-08-444-818-100	Sequence 100, App
39	388.6	84.3	665	US-08-444-818-102	Sequence 102, App
40	388.6	84.3	9185	US-08-444-818-122	Sequence 122, App
41	388.6	84.3	9185	US-08-444-818-123	Sequence 123, App
42	388.6	84.3	9379	US-09-388-874-1	Sequence 1, Appli
43	388.6	84.3	9379	US-09-916-359-1	Sequence 1, Appli
44	388.6	84.3	9401	US-07-910-760-9	Sequence 9, Appli
45	388.6	84.3	9401	US-08-440-519-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1
US-08-836-075A-103
Sequence 103, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 103:
SEQUENCE CHARACTERISTICS:
LENGTH: 461 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-103

Query Match 100.0%; Score 461; DB 3; Length 461;
Best Local Similarity 100.0%; Pred. No. 3,7e-129;
Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGCGGAACCGGTGAG 60
    |||
DB 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGCGGAACCGGTGAG 60
QY 61 TACACCGGAATTGCGGGAAGACTGGGTCTTTCTTGATTAACCCACTATGCCCCGA 120
    |||
DB 61 TACACCGGAATTGCGGGAAGACTGGGTCTTTCTTGATTAACCCACTATGCCCCGA 120
QY 121 GATTGGGCGTGGCCCGGCAAGACTGAGCCGAGTACGTTGGGTTGCGAAAGGCGCTTG 180
    |||
DB 121 GATTGGGCGTGGCCCGGCAAGACTGAGCCGAGTACGTTGGGTTGCGAAAGGCGCTTG 180
QY 181 TGTACTGCTGATGAGGTGCTTGCGAGTGCCTCCGGAGAGTCTGTTAGACCGTGACCAT 240
    |||
DB 181 TGTACTGCTGATGAGGTGCTTGCGAGTGCCTCCGGAGAGTCTGTTAGACCGTGACCAT 240
QY 241 GAGACGGAATCTTAAACCTCAAGACAACCAAGAAACCAACCGCGCCGACAGGA 300
    |||
DB 241 GAGACGGAATCTTAAACCTCAAGACAACCAAGAAACCAACCGCGCCGACAGGA 300
QY 301 CGTTAAGTCCCGGCGGTGCGCAGATGCTTGCGCGGGGTGTACTTTGTCGCGCGAGGGG 360
    |||
DB 301 CGTTAAGTCCCGGCGGTGCGCAGATGCTTGCGCGGGGTGTACTTTGTCGCGCGAGGGG 360
QY 361 CCCGAGTGGGTGCGCGGCGAGCAAGAAAGACTCCGAGCGGTCCAGCGCGTGAGAG 420
    |||
DB 361 CCCGAGTGGGTGCGCGGCGAGCAAGAAAGACTCCGAGCGGTCCAGCGCGTGAGAG 420
QY 421 GCGCCAACTTATCCCAAGTTTGGCGGCAACCGGCGCTT 461
    |||
DB 421 GCGCCAACTTATCCCAAGTTTGGCGGCAACCGGCGCTT 461
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RESULT 2

US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Weilacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991

ATTORNEY/AGENT INFORMATION:
; NAME: Weilacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-4809
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELE: WU 64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-1

Query Match 90.1%; Score 415.4; DB 2; Length 9589;
Best Local Similarity 78.3%; Pred. No. 6,4e-115;
Matches 358; Conservative 73; Mismatches 26; Indels 0; Gaps 0;

```
QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGCGGAACCGGTGAG 60
    |||
DB 103 CGUACAGCCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGCGGAACCGGTGAG 162
QY 61 TACACCGGAATTGCGGGAAGACTGGGTCTTTCTTGATTAACCCACTATGCCCCGA 120
    |||
DB 163 TACACCGGAATTGCGGGAAGACTGGGTCTTTCTTGATTAACCCACTATGCCCCGA 120
QY 121 GATTGGGCGTGGCCCGGCAAGACTGAGCCGAGTACGTTGGGTTGCGAAAGGCGCTTG 180
    |||
DB 123 CAUUGGGCGTGGCCCGGCAAGACTGAGCCGAGTACGTTGGGTTGCGAAAGGCGCTTG 180
QY 181 TGTACTGCTGATGAGGTGCTTGCGAGTGCCTCCGGAGAGTCTGTTAGACCGTGACCAT 240
    |||
DB 283 UGUACUGCUGAGAGGUGUCUGAGUGCCCGGAGAGUCUGUGACCGUGACCAU 342
QY 241 GAGACGGAATCTTAAACCTCAAGACAACCAAGAAACCAACCGCGCCGACAGGA 300
    |||
DB 343 GAGACGGAATCTTAAACCTCAAGACAACCAAGAAACCAACCGCGCCGACAGGA 300
QY 301 CGTTAAGTCCCGGCGGTGCGCAGATGCTTGCGCGGGGTGTACTTTGTCGCGCGAGGGG 360
    |||
DB 403 CGUUAAGUUCGCGGCGCGGCGGAGUCUGUGCGAGUUAUCUGUGCGCGGAGAGG 462
QY 361 CCCGAGTGGGTGCGCGGCGGAGCAAGAAAGACTCCGAGCGGTCCAGCGCGTGAGAG 420
    |||
DB 463 CCCGAGTGGGTGCGCGGCGGAGCAAGAAAGACTCCGAGCGGTCCAGCGCGTGAGAG 420
QY 421 GCGCCAACTTATCCCAAGTTTGGCGGCAACCGGCGCTT 461
    |||
DB 523 GCGCCAACTTATCCCAAGTTTGGCGGCAACCGGCGCTT 461
```

RESULT 3

US-07-925-695-2
; Sequence 2, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Weilacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/07/925,695
  FILING DATE: 19920807
  CLASSIFICATION: 435
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: JP 287402/91
    FILING DATE: 09-AUG-1991
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: JP 360441/91
    FILING DATE: 05-DEC-1991
  ATTORNEY/AGENT INFORMATION:
    NAME: Weillacher, Robert G.
    REGISTRATION NUMBER: 20,531
  REFERENCE/DOCKET NUMBER: 06/87-48009
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (202) 659-2811
    TELEFAX: (202) 659-1462
    TELEX: WUI 64470
  INFORMATION FOR SEQ ID NO: 2:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 9589 base pairs
      TYPE: NUCLEIC ACID
      STRANDEDNESS: single
      TOPOLOGY: linear
US-07-925-695-2

```

```

Query Match      90.1%; Score 415.4; DB 2; Length 9589;
Best Local Similarity 94.3%; Pred. No. 6.4e-115;
Matches 431; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATATGCTGTGGGAAACCGGTAG 60
DB 103 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATATGCTGTGGGAAACCGGTAG 162
QY 61 TACACCGGAATTCGCGGAGAGAGCTGCTTCTTGATTAACCACTCATGACCGGGA 120
DB 163 TACACCGGAATTCGCGGAGAGAGCTGCTTCTTGATTAACCACTCATGACCGGGA 222
QY 121 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTGTGGGTTCGAAAGGCTTG 180
DB 223 CATTTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTGTGGGTTCGAAAGGCTTG 282
QY 181 TGTACTGCTGTATGAGGTCTTGCGAGTGCCTCCGAGGTCTGTAGACCGTGACCAT 240
DB 283 TGTACTGCTGTATGAGGTCTTGCGAGTGCCTCCGAGGTCTGTAGACCGTGACCAT 342
QY 241 GAGCAGCAATCTTAACTCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 300
DB 343 GAGCAGCAATCTTAACTCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 402
QY 301 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTCCGCGAGGGG 360
DB 403 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTCCGCGAGGGG 462
QY 361 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGAACTCGAGCGGTCCAGCCGCTGGAG 420
DB 463 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGAACTCGAGCGGTCCAGCCGCTGGAG 522
QY 421 GCGCAACTATCCCAAGGTTAGCGGAGCAACCGGC 457
DB 523 GCGCAACTATCCCAAGGTTAGCGGAGCAACCGGC 559

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RESULT 4
US-08-240-547-29
Sequence 29, Application US/08240547
Patent No. 5527669
GENERAL INFORMATION:
APPLICANT: Resnick, Robert M.
APPLICANT: Young, Karen K.Y.

```

```

TITLE OF INVENTION: Primers and Probes for Detection of
TITLE OF INVENTION: Hepatitis C and No. 5527669e1 Variants
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
  ADDRESSEE: Hoffmann-La Roche Inc.
  STREET: 340 Kingsland Street
  CITY: Nutley
  STATE: NJ
  COUNTRY: U.S.A.
  ZIP: 07110-1199
COMPUTER READABLE FORM:
  MEDIUM TYPE: Floppy disk
  COMPUTER: IBM PC compatible
  OPERATING SYSTEM: PC-DOS/MS-DOS
  SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/240,547
  FILING DATE:
  CLASSIFICATION: 435
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US/07/918,844
  FILING DATE:
  ATTORNEY/AGENT INFORMATION:
    NAME: Siae Ph.D., Stacey R.
    REGISTRATION NUMBER: 32,630
    REFERENCE/DOCKET NUMBER: 8586
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (510) 814-2863
    TELEFAX: (510) 814-2977
  INFORMATION FOR SEQ ID NO: 29:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 526 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
      MOLECULE TYPE: DNA (genomic)
US-08-240-547-29

```

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Query Match      88.0%; Score 405.8; DB 2; Length 526;
Best Local Similarity 93.0%; Pred. No. 1.7e-112;
Matches 425; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATATGCTGTGGGAAACCGGTAG 60
DB 48 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATATGCTGTGGGAAACCGGTAG 107
QY 48 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATATGCTGTGGGAAACCGGTAG 107
DB 61 TACACCGGAATTCGCGGAGAGAGCTGCTTCTTGATTAACCACTCATGACCGGGA 120
DB 108 TACACCGGAATTCGCGGAGAGAGCTGCTTCTTGATTAACCACTCATGACCGGGA 167
QY 121 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTGTGGGTTCGAAAGGCTTG 180
DB 168 CATTTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTGTGGGTTCGAAAGGCTTG 227
QY 181 TGTACTGCTGTATGAGGTCTTGCGAGTGCCTCCGAGGTCTGTAGACCGTGACCAT 240
DB 228 TGTACTGCTGTATGAGGTCTTGCGAGTGCCTCCGAGGTCTGTAGACCGTGACCAT 287
QY 241 GAGCAGCAATCTTAACTCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 300
DB 288 GAGCAGCAATCTTAACTCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 347
QY 301 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTCCGCGAGGGG 360
DB 348 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTCCGCGAGGGG 407
QY 361 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGAACTCGAGCGGTCCAGCCGCTGGAG 420
DB 408 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGAACTCGAGCGGTCCAGCCGCTGGAG 467
QY 421 GCGCAACTATCCCAAGGTTAGCGGAGCAACCGGC 457
DB 468 ACGCAGCCCATCCCAAGGTTAGCGGAGCAACCGGC 504

```

RESULT 5
US-08-836-075A-75
Sequence 75, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

Query Match 86.8%; Score 400.2; DB 3; Length 1195;
Best Local Similarity 91.2%; Pred. No. 1.1e-110;
Matches 417; Conservative 1; Mismatches 39; Indels 0; Gaps 0;

QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGACATGCTGCGGAAACCGGTAG 60
DB 1 CGNACANCTCCAGAGCCCCCTCCCGGAGAGACATGCTGCGGAAACCGGTAG 60
QY 61 TACACCGGAAATGCGGGGAAGAAGTGGGTCCTTTCTTGATTAACCACTATAGCCGGA 120
DB 61 TACACCGGAAATGCGGGGAAGAAGTGGGTCCTTTCTTGATTAACCACTATAGCCGGA 120
QY 121 GATTGGGGGTCCTCCCGCAAGCTGCTAGCCGAGTAGCGGTTGGGTTGGGAAAGGCTTG 180
DB 121 CATTTGGGGTCCTCCCGCAAGCTGCTAGCCGAGTAGCGGTTGGGTTGGGAAAGGCTTG 180
QY 181 TGGTCTGCTGATATGGGTCCTTGAGAGTCCCGGAGAGTCTCGTAGCCGTGCAATCAT 240
DB 181 TGGTCTGCTGATATGGGTCCTTGAGAGTCCCGGAGAGTCTCGTAGCCGTGCAATCAT 240
QY 241 GAGCAGAAATCTAAACCTCAAGACAAACAAAGAAACCAACCAACCGCCGACAGGA 300

DB 241 GAGCAGAAATCTAAACCTCAAGACAAACAAAGAAACCAACCAACCGCCGACAGGA 300
QY 301 CGTTAAGTCCCGGCGGTGGCCAGATCGTTGGCGGGGTACTGTTGCGGCAAGGG 360
DB 301 CGTTAAGTCCCGGCGGTGGCCAGATCGTTGGCGGGGTACTGTTGCGGCAAGGG 360
QY 361 CCCGAGAGTGGTGTGGCGCGAGCAAGAAAGACTCGGAGCGGTCCGAGCGGTGGAG 420
DB 361 NCCGAGTNGTNTATGCCAGACGAGAGACTGTCGGAACAGTCCGAGCAGGTGGAG 420
QY 421 GCGCAACTATCCCGCAAGGTTAGGCGCACACCGGC 457
DB 421 GCGCAGCCATCCCGAAGATGAGNACCACTAGGC 457

RESULT 6
US-07-925-695-6
Sequence 6, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-6

Query Match 86.6%; Score 399; DB 2; Length 9511;
Best Local Similarity 76.4%; Pred. No. 5.7e-110;
Matches 349; Conservative 72; Mismatches 36; Indels 0; Gaps 0;

QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCAATGATGCTGCGGAAACCGGTAG 60
DB 104 CGUACAGCCTCCAGAGCCCCCTCCCGGAGAGCAUAGUGGUCUGCGAAACCGGUGAG 163


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QY 61 TACACCGGAATTGCGGGAAGACTGGGTCCTTTCTTGATTAACCCACTATAGCCCGGA 120
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 164 UACACCGGAATUACCGGAAGAAGACUGGUCUUCUGAGUAAACCCACUUAUGUCGAGU 223
QY 121 GATTTGGGCGTCCCGCCCAAGACTGCTAGCCGATACGTTGGTTGGCGAAAGCCCTTG 180
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 224 CAUUGGGGACGCCCCCGCAAGACUGCUAGCCGAAACGUGGUGUUCGAAAGCCUUG 283
QY 181 TGTACTGCTGATATAGGTGCTTGGAGTGCCTCCGGAGGCTCTGTAGACGCTGACCAT 240
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 284 UGUUACUCCUGUAGUGGURCUUGAGUGCCCGGAGUGUCUGUAGACCGUGCAUUAU 343
QY 241 GAGCAGCAATCTTAACCTCAAGACAACCAACCAACCAACCGCGCCCAACAGGA 300
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 344 GAGCAGCAATCTTAACCTCAAGACAACCAACCAACCAACCGCGCCCAACAGGA 403
QY 301 CGTTAAGTTCCTCCGCGGCTGGCCAGATGTTGGCGGGGTGTACTTTGTTGCCGCGAGGG 360
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 404 CGUUAAGUCCCGGUGGCGGUGUAGUUGGCGGAGUUAUCUGUCGCGCGCGAGGGG 463
QY 361 CCCGAGTGGGTGTGTCGCGGACGAGAAAGACCTCGAGCGGTCGACCGCGTGGAG 420
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 464 CCCGAGUUGGUGUGCGCGGACGAGAAAGACUUCYAGCGAUCCGCGCGUGGACG 523
QY 421 GCGCCAACCTATCCCAAGTTAGCGCGACCAACCGGC 457
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 524 ACGCAGCCCAUCCCGAAAGAUCCGCGCUCACCGGC 560

```

RESULT 7

US-07-925-695-7

Sequence 7, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

TITLE OF INVENTION: DETECTION SYSTEMS

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Beveridge, Degrandi, Weillacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

APPLICATION NUMBER: JP 287402/91

PRIOR APPLICATION DATA:

FILING DATE: 09-AUG-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 360441/91

FILING DATE: 05-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: Weillacher, Robert G.

REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 06/87-48009

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462

TELEX: WUI 64470

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 9511 base pairs

TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-7

Query Match

86.6%; Score 399; DB 2; Length 9511;

Best Local Similarity 91.9%; Pred. No. 5,7e-110;

Matches 420; Conservative 1; Mismatches 36; Indels 0; Gaps 0;

```

QY 1 CGTACAGCTTCAGAGACCCCGCTCCCGGAGAGCCATAGTGTCTCGGAAACCGGTGAG 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 104 GGTACAGCTTCAGAGACCCCGCTCCCGGAGAGCCATAGTGTCTCGGAAACCGGTGAG 163
QY 61 TACACCGGAATTGCGGGAAGACTGGGTCCTTTCTTGATTAACCCACTATAGCCCGGA 120
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 164 UACACCGGAATUACCGGAAGAAGACUGGUCUUCUGAGUAAACCCACUUAUGUCGAGU 223
QY 121 GATTTGGGCGTCCCGCCCAAGACTGCTAGCCGATACGTTGGTTGGCGAAAGCCCTTG 180
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 224 CAUUGGGGACGCCCCCGCAAGACUGCUAGCCGAAACGUGGUGUUCGAAAGCCUUG 283
QY 181 TGTACTGCTGATATAGGTGCTTGGAGTGCCTCCGGAGGCTCTGTAGACGCTGACCAT 240
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 284 UGUUACUCCUGUAGUGGURCUUGAGUGCCCGGAGUGUCUGUAGACCGUGCAUUAU 343
QY 241 GAGCAGCAATCTTAACCTCAAGACAACCAACCAACCAACCGCGCCCAACAGGA 300
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 344 GAGCAGCAATCTTAACCTCAAGACAACCAACCAACCAACCGCGCCCAACAGGA 403
QY 301 CGTTAAGTTCCTCCGCGGCTGGCCAGATGTTGGCGGGGTGTACTTTGTTGCCGCGAGGG 360
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 404 CGTTAAGTTCCTCCGCGGCTGGCCAGATGTTGGCGGGGTGTACTTTGTTGCCGCGAGGG 463
QY 361 CCCGAGTGGGTGTGTCGCGGACGAGAAAGACCTCGAGCGGTCGACCGCGTGGAG 420
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 464 CCCGAGTGGGTGTGTCGCGGACGAGAAAGACCTCGAGCGGTCGACCGCGTGGAG 523
QY 421 GCGCCAACCTATCCCAAGTTAGCGCGACCAACCGGC 457
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 524 ACGCAGCCCAUCCCGAAAGAUCCGCGCUCACCGGC 560

```

RESULT 8

US-08-836-075A-59

Sequence 59, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESSES:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 59:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-59

Query Match 86.5%; Score 398.6; DB 3; Length 652;
 Best Local Similarity 91.5%; Pred. No. 2,7e-110;
 Matches 422; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGAAACCGGTGAG 60
 DB 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGAAACCGGTGAG 60
 QY 61 TACACCGGAATTGCGGGAGAGCTGGTCTTTTGTGATTACCACTTATGCCCGGA 120
 DB 61 TACACCGGAATTGCGGGAGAGCTGGTCTTTTGTGATTACCACTTATGCCCGGA 120
 QY 61 TACACCGGAATTGCGGGAGAGCTGGTCTTTTGTGATTACCACTTATGCCCGGA 120
 DB 61 TACACCGGAATTGCGGGAGAGCTGGTCTTTTGTGATTACCACTTATGCCCGGA 120
 QY 121 GATTGGGCGTGGCCCCCGAAGACTGCTAGCCGATGCTGGTGGTTCGAAAGCCTTG 180
 DB 121 GATTGGGCGTGGCCCCCGAAGACTGCTAGCCGATGCTGGTGGTTCGAAAGCCTTG 180
 QY 121 GATTGGGCGTGGCCCCCGAAGACTGCTAGCCGATGCTGGTGGTTCGAAAGCCTTG 180
 DB 121 GATTGGGCGTGGCCCCCGAAGACTGCTAGCCGATGCTGGTGGTTCGAAAGCCTTG 180
 QY 181 TGGTACTGCTGATAGGGGTCTTGGAGTGCCTCCGGAGGTCTGTAAGCCGTGACCAT 240
 DB 181 TGGTACTGCTGATAGGGGTCTTGGAGTGCCTCCGGAGGTCTGTAAGCCGTGACCAT 240
 QY 181 TGGTACTGCTGATAGGGGTCTTGGAGTGCCTCCGGAGGTCTGTAAGCCGTGACCAT 240
 DB 181 TGGTACTGCTGATAGGGGTCTTGGAGTGCCTCCGGAGGTCTGTAAGCCGTGACCAT 240
 QY 241 GAGCAGCAATCTTAACCTCAAGACAAACCAACCAACCAACCAACCAACCAACCA 300
 DB 241 GAGCAGCAATCTTAACCTCAAGACAAACCAACCAACCAACCAACCAACCAACCA 300
 QY 301 CGTTAAGTTCCTCCGGGCGGTGGCCAGATGCTGGCGGGGTGTAATTGTTGCCGCGAGGG 360
 DB 301 CGTTAAGTTCCTCCGGGCGGTGGCCAGATGCTGGCGGGGTGTAATTGTTGCCGCGAGGG 360
 QY 361 CCCCAAGTGGGTGGCGCGAGCGAAGAAACCTTCGAGACGGTCCAGCCGCGTGGAG 420
 DB 361 CCCCAAGTGGGTGGCGCGAGCGAAGAAACCTTCGAGACGGTCCAGCCGCGTGGAG 420
 QY 421 GCGCAACCTATCCCAAGTGAAGCGACCAACCGGCGGT 461
 DB 421 GCGCAACCTATCCCAAGTGAAGCGACCAACCGGCGGT 461

RESULT 9 US-08-191-160-21

Sequence 21, Application US/08191160
 Patent No. 6210675
 GENERAL INFORMATION:
 APPLICANT: Highfield, Peter Edmund
 APPLICANT: Rodgers, Brian Colin
 APPLICANT: Tedder, Richard Seton
 APPLICANT: Barbara, John Anthony James
 TITLE OF INVENTION: Viral Agent
 NUMBER OF SEQUENCES: 25
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Rothwell, Figs, Ernst & Kurz
 STREET: 1700 K Street
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.

ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM AT compatible
 OPERATING SYSTEM: MS-DOS V3.2
 SOFTWARE: Wordperfect 5.0 (DOS text)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/191,160
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/628,516
 FILING DATE: 17 DEC 1990
 APPLICATION NUMBER: UK 89 28 562.1
 FILING DATE: 18 DEC 1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: UK 90 04 414.0
 FILING DATE: 27 FEB 1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: UK 90 04 814.1
 FILING DATE: 03 MAR 1990
 ATTORNEY/AGENT INFORMATION:
 NAME: E. Anthony Figs
 REGISTRATION NUMBER: 27,195
 REFERENCE/DOCKET NUMBER: 1645-103A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 833-5740
 TELEFAX: (202) 833-5744
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2116 base pairs
 TYPE: nucleotide with corresponding protein
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA to genomic RNA
 ORIGINAL SOURCE:
 ORGANISM: human; serum infectious for PT-NANBH
 IMMEDIATE SOURCE:
 LIBRARY: cDNA clones from 5' end of the genome
 LOCATION: from 308 to 2116 bp start of the PT-NANBH
 LOCATION: polyprotein
 OTHER INFORMATION: viral structural and non-structural
 OTHER INFORMATION: proteins
 US-08-191-160-21

Query Match 86.0%; Score 396.6; DB 3; Length 2116;
 Best Local Similarity 91.5%; Pred. No. 1,7e-109;
 Matches 420; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGAAACCGGTGAG 60
 DB 70 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGAAACCGGTGAG 129
 QY 61 TACACCGGAATTGCGGGAGAGCTGGTCTTTTGTGATTACCACTTATGCCCGGA 120
 DB 130 TACACCGGAATTGCGGGAGAGCTGGTCTTTTGTGATTACCACTTATGCCCGGA 189
 QY 121 GATTGGGCGTGGCCCCCGAAGACTGCTAGCCGATGCTGGTGGTTCGAAAGCCTTG 180
 DB 190 GATTGGGCGTGGCCCCCGAAGACTGCTAGCCGATGCTGGTGGTTCGAAAGCCTTG 249
 QY 181 TGGTACTGCTGATAGGGGTCTTGGAGTGCCTCCGGAGGTCTGTAAGCCGTGACCAT 240
 DB 250 TGGTACTGCTGATAGGGGTCTTGGAGTGCCTCCGGAGGTCTGTAAGCCGTGACCAT 309
 QY 241 GAGCAGCAATCTTAACCTCAAGACAAACCAACCAACCAACCAACCAACCAACCA 300
 DB 310 GAGCAGCAATCTTAACCTCAAGACAAACCAACCAACCAACCAACCAACCAACCA 369
 QY 301 CGTTAAGTTCCTCCGGGCGGTGGCCAGATGCTGGCGGGGTGTAATTGTTGCCGCGAGGG 360
 DB 370 CGTTAAGTTCCTCCGGGCGGTGGCCAGATGCTGGCGGGGTGTAATTGTTGCCGCGAGGG 429

QY 361 CCCGAGTGGGTGTGCGCGCAGGAAAGACTCGAGCGGTCCAGCCGCTGGAG 420
DB 430 CCCGAGTGGGTGTGCGCGCAGGAAAGACTCGAGCGGTCCAGCCGCTGGAG 489
QY 421 GCGCAACCTATCCCAAGTTAGGCGCAGCCGCGCG 459
DB 490 GCGCAACCTATCCCAAGTTAGGCGCAGCCGCGCGAG 528

RESULT 10

US-08-474-700B-45
; Sequence 45, Application US/08474700B
; Patent No. 6001990
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack
; APPLICANT: Wakita, Takaji
; APPLICANT: Moradpour, Darius
; TITLE OF INVENTION: ANTISENSE INHIBITION OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,700B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/240,382
; FILING DATE: 10 May 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraeier, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00786/279001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 780 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-474-700B-45

Query Match 85.7%; Score 395; DB 3; Length 780;
Best Local Similarity 91.3%; Pred. No. 3,6e-109;
Matches 419; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTAG 60
DB 104 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTAG 163
QY 61 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTCTATGCCGGA 120
DB 164 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTCTATGCCGGA 223
QY 121 GATTGGGCGTGGCCCGCAAGACTGTAGCCGAGTAGCGTTGGGTGCGAAGGCTTG 180
DB 224 GATTGGGCGTGGCCCGCAAGACTGTAGCCGAGTAGCGTTGGGTGCGAAGGCTTG 283
QY 181 TGTACTGCTGTGATAGGGTGTCTTGGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 240

DB 284 TGTACTGCTGTGATAGGGTGTCTTGGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 343
QY 241 GAGACGAATCTTAACCTCAAGAGCAACCAAGAAAGCAACCAACCGCGCCAGAGGA 300
DB 344 GAGACGAATCTTAACCTCAAGAGCAACCAAGAAAGCAACCAACCGCGCCAGAGGA 403
QY 301 CGTTAAGTTCCCGGCGGTGGCCAGATCGTTGGCGGGGTGTAATTTGTCGCGCAGAGG 360
DB 404 CGTCAAGTTCCCGGCGGTGGTCAATCGTTGGTGAATTAACCTGTTGCGCGCAGAGG 463
QY 361 CCCGAGTGGGTGTGCGCGCAGGAAAGACTCGAGCGGTCCAGCCGCTGGAG 420
DB 464 CCCGAGTGGGTGTGCGCGCAGGAAAGACTCGAGCGGTCCAGCCGCTGGAG 523
QY 421 GCGCAACCTATCCCAAGTTAGGCGCAGCCGCGCG 459
DB 524 GCGCAACCTATCCCAAGTTAGGCGCAGCCGCGCGAG 562

RESULT 11

US-09-763-836-1
; Sequence 1, Application US/09763836
; Patent No. 6869779
; GENERAL INFORMATION:
; APPLICANT: YAMADA, Osamu
; APPLICANT: YOSHIDA, Hiroshi
; APPLICANT: ZHANG, Jing
; TITLE OF INVENTION: Nucleic Acid Sequence which Enhances Gene Expression and Method
; Patent No. 6869779
; TITLE OF INVENTION: Enhancing Gene Expression
; FILE REFERENCE: 19036/37156
; CURRENT APPLICATION NUMBER: US/09/763,836
; CURRENT FILING DATE: 2001-02-27
; NUMBER OF SEQ ID NOS: 11
; SEQ ID NO 1
; LENGTH: 713
; TYPE: DNA
; ORGANISM: Hepatitis Type C Virus (HCV)
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(341)
; NAME/KEY: CDS
; LOCATION: (342)..(713)
; US-09-763-836-1

Query Match 85.3%; Score 393.4; DB 3; Length 713;
Best Local Similarity 91.1%; Pred. No. 1e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTAG 60
DB 104 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTAG 163
QY 61 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTCTATGCCGGA 120
DB 164 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTCTATGCCGGA 223
QY 121 GATTGGGCGTGGCCCGCAAGACTGTAGCCGAGTAGCGTTGGGTGCGAAGGCTTG 180
DB 224 GATTGGGCGTGGCCCGCAAGACTGTAGCCGAGTAGCGTTGGGTGCGAAGGCTTG 283
QY 181 TGTACTGCTGTGATAGGGTGTCTTGGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 240
DB 284 TGTACTGCTGTGATAGGGTGTCTTGGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 343
QY 241 GAGACGAATCTTAACCTCAAGAGCAACCAAGAAAGCAACCAACCGCGCCAGAGGA 300
DB 344 GAGACGAATCTTAACCTCAAGAGCAACCAAGAAAGCAACCAACCGCGCCAGAGGA 403
QY 301 CGTTAAGTTCCCGGCGGTGGCCAGATCGTTGGCGGGGTGTAATTTGTCGCGCAGAGG 360
DB 404 CGTCAAGTTCCCGGCGGTGGTCAATCGTTGGTGAATTAACCTGTTGCGCGCAGAGG 463

TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 342..914
PCT-US95-13552-14

Query Match 85.3%; Score 393.4; DB 6; Length 923;
Best Local Similarity 91.1%; Pred. No. 1.2e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 60
DB 104 CGTGAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 163
QY 61 TACACCGAATTCGCGGAGAGCTGGTCTTTCTTGATTAACCACTATATGCCGGA 120
DB 164 TACACCGAATTCGCGGAGAGCTGGTCTTTCTTGATTAACCACTATATGCCGGA 223
QY 121 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGAGTGGTGGGAGAAAGCCTTG 180
DB 224 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGAGTGGTGGGAGAAAGCCTTG 283
QY 181 TGTACTGCTGATAGGGTGTCTTGGAGTGCCTCCGAGAGTCTCTAGACCGTGACCAT 240
DB 284 TGTACTGCTGATAGGGTGTCTTGGAGTGCCTCCGAGAGTCTCTAGACCGTGACCAT 343
QY 241 GAGCAGCAATCTTAACCTCAAGACAAACCAAAAGAAACCAACCGCCGCCACAGGA 300
DB 344 GAGCAGCAATCTTAACCTCAAGACAAACCAAAAGAAACCAACCGCCGCCACAGGA 403
QY 301 CGTTAAGTTCCTGGGCGGTGGCGAGATGTTGGGCGGGGTGATCTTGTTCGCGCGAGGGG 360
DB 404 CCTCAAGTTCCTGGGCGGTGGCGAGATGTTGGGCGGGGTGATCTTGTTCGCGCGAGGGG 463
QY 361 CCCGAGGTGGGTGTGCGCGAGAGCAAGAAAGCTCGAGCGGTCCGACCGCGTGGGAG 420
DB 464 CCCGAGGTGGGTGTGCGCGAGAGCAAGAAAGCTTCGAGCGGTGCGAACCTCGTGGAG 523
QY 421 GCGCCAACTATCCCAAGGTTAGGCGCAACCAACCGCGCGG 459
DB 524 GCGCAACCTATCCCAAGGATCGCGCGCGCGAGGGGCGAG 562

RESULT 14
US-08-324-977-3
Sequence 3, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hirototo
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Isao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, McIreland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-08-324-977-3

Query Match 85.3%; Score 393.4; DB 2; Length 1499;
Best Local Similarity 91.1%; Pred. No. 1.4e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 60
DB 95 CGTGAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 154
QY 61 TACACCGAATTCGCGGAGAGCTGGTCTTTCTTGATTAACCACTATATGCCGGA 120
DB 155 TACACCGAATTCGCGGAGAGCTGGTCTTTCTTGATTAACCACTATATGCCGGA 214
QY 121 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGAGTGGTGGGAGAAAGCCTTG 180
DB 215 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGAGTGGTGGGAGAAAGCCTTG 274
QY 181 TGTACTGCTGATAGGGTGTCTTGGAGTGCCTCCGAGAGTCTGTAGACCGTGACCAT 240
DB 275 TGTACTGCTGATAGGGTGTCTTGGAGTGCCTCCGAGAGTCTGTAGACCGTGACCAT 334
QY 241 GAGCAGCAATCTTAACCTCAAGACAAACCAAAAGAAACCAACCGCCGCCACAGGA 300
DB 335 GAGCAGCAATCTTAACCTCAAGACAAACCAAAAGAAACCAACCGCCGCCACAGGA 394
QY 301 CGTTAAGTTCCTGGGCGGTGGCGAGATGTTGGGCGGGGTGATCTTGTTCGCGCGAGGGG 360
DB 395 CGTTAAGTTCCTGGGCGGTGGCGAGATGTTGGGCGGGGTGATCTTGTTCGCGCGAGGGG 454
QY 361 CCCGAGGTGGGTGTGCGCGAGAGCAAGAAAGCTTCGAGCGGTCCGACCGCGCGTGGAG 420

Db 455 CCCGAGTTGGGTGTGCGCGCGCCGAGAGACTTCCGAGCGGTGCAACCTCGTGAG 514
QY 421 GCGCAACCTATCCCAAGTTAGGCGCGACACCGGCGG 459
Db 515 GCGCAACCTATCCCAAGGCTGCGCGCGCCGAGGCGAG 553

RESULT 15

US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Twaio
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; NAME/KEY: misc_feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ

OTHER INFORMATION: ID NO: 1"
US-08-384-616-3

Query Match 85.3%; Score 393.4; DB 2; Length 1499;
Best Local Similarity 91.1%; Pred. No. 1.4e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY	1	CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGGAACCGGTGAG	60
Db	95	CGTGCAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGGAACCGGTGAG	154
QY	61	TACACCGGAATTGCGGGAAGACTGGGTCTTTTCTTGATTAACCCACTTAAGCCCGGA	120
Db	155	TACACCGGAATTGCGGGAAGACTGGGTCTTTTCTTGATTAACCCACTTAAGCCCGGA	214
QY	121	GATTGGGCGTGGCCCGCAAGACTGCTAGCCGATGACGTTGGGTTGCGAAAGGCTTG	180
Db	215	GATTGGGCGTGGCCCGCAAGACTGCTAGCCGATGACGTTGGGTTGCGAAAGGCTTG	274
QY	181	TGTAAGTCCGATAGAGGTGCTTGCGAGTCCCGGAGGTCTGTAAGCCGTGACCAT	240
Db	275	TGTAAGTCCGATAGAGGTGCTTGCGAGTCCCGGAGGTCTGTAAGCCGTGACCAT	334
QY	241	GAGCAGGAATCTTAACCTCAAGACAAACCAAAAGAAACCAACCCGCGCCACAGGA	300
Db	335	GAGCAGGAATCTTAACCTCAAGACAAACCAAAAGAAACCAACCCGCGCCACAGGA	394
QY	301	CGTTAAGTCCCGGCGGTGCGCAGATCGTTGGCGGGGTGAATTGTCGCGCAGAGG	360
Db	395	CGTTAAGTCCCGGCGGTGCGCAGATCGTTGGCGGGGTGAATTGTCGCGCAGAGG	454
QY	361	CCCGAGATGGGTGTGCGCGGAGCAGAAAGAACTCGAGCGGTCCAGCCGCTGGAG	420
Db	455	CCCGAGATGGGTGTGCGCGGAGCAGAAAGAACTCGAGCGGTCCAGCCGCTGGAG	514
QY	421	GCGCAACCTATCCCAAGTTAGGCGCGACACCGGCGG 459	
Db	515	GCGCAACCTATCCCAAGGCTGCGCGCGCCGAGGCGAG 553	

Search completed: January 11, 2006, 14:46:45
Job time : 137.291 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-105

Perfect score: 340
Sequence: 1 ctctactgtcacagagagag9.....accacgagacctacganc 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapept 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_NA.*

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5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	338.6	99.6	340	3	US-08-836-075A-105
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3	309	90.9	335	3	US-08-836-075A-101
4	228.6	67.2	340	3	US-08-836-075A-71
5	226.6	66.6	340	3	US-09-878-281A-215
6	220.2	64.8	340	3	US-08-441-971-15
7	220.2	64.8	340	3	US-08-221-653-15
8	220.2	64.8	340	3	US-08-442-144A-15
9	220.2	64.8	340	3	US-08-441-970-15
10	219.8	64.6	340	3	US-08-441-971-16
11	219.8	64.6	340	3	US-08-221-653-16
12	219.8	64.6	340	3	US-08-442-144A-16
13	219.8	64.6	340	3	US-08-441-970-16
14	218.2	64.2	9511	2	US-07-925-695-6
15	218.2	64.2	9511	2	US-07-925-695-7
16	213.8	62.9	340	3	US-08-441-971-17
17	213.8	62.9	340	3	US-08-221-653-17
18	213.8	62.9	340	3	US-08-442-144A-17
19	213.8	62.9	340	3	US-08-441-970-17
20	213.6	62.8	340	3	US-08-836-075A-69
21	212.6	62.5	340	3	US-09-878-281A-145
22	212.6	62.5	2693	2	US-07-925-695-4
23	212.6	62.5	9589	2	US-07-925-695-1
24	212.6	62.5	9589	2	US-07-925-695-2

25	207.8	61.1	340	3	US-08-836-075A-79	Sequence 79, Appl
26	207.4	61.0	340	3	US-08-441-971-13	Sequence 13, Appl
27	207.4	61.0	340	3	US-08-441-971-14	Sequence 14, Appl
28	207.4	61.0	340	3	US-08-221-653-13	Sequence 13, Appl
29	207.4	61.0	340	3	US-08-221-653-14	Sequence 14, Appl
30	207.4	61.0	340	3	US-08-442-144A-13	Sequence 13, Appl
31	207.4	61.0	340	3	US-08-442-144A-14	Sequence 14, Appl
32	207.4	61.0	340	3	US-08-441-970-13	Sequence 13, Appl
33	207.4	61.0	340	3	US-08-441-970-14	Sequence 14, Appl
34	196.4	57.8	340	3	US-08-836-075A-77	Sequence 77, Appl
35	191.4	56.3	340	3	US-08-836-075A-73	Sequence 73, Appl
36	173.4	51.0	340	3	US-08-836-075A-55	Sequence 55, Appl
37	169.4	49.8	340	3	US-09-878-281A-211	Sequence 211, App
38	168.6	49.6	340	3	US-08-836-075A-87	Sequence 87, Appl
39	168	49.4	340	3	US-08-441-971-6	Sequence 6, Appl
40	168	49.4	340	3	US-08-221-653-6	Sequence 6, Appl
41	168	49.4	340	3	US-08-442-144A-6	Sequence 6, Appl
42	168	49.4	340	3	US-08-441-970-6	Sequence 6, Appl
43	166.4	48.9	340	3	US-08-836-075A-83	Sequence 83, Appl
44	165.8	48.8	340	3	US-09-878-281A-106	Sequence 106, App
45	165.8	48.8	340	3	US-09-878-281A-209	Sequence 209, App

ALIGNMENTS

RESULT 1
US-08-836-075A-105
; Sequence 105, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 105:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-105

Query Match 99.6%; Score 338.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 6.5e-98;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 CTTACTGTCAAGAGAGGATATACGAGAGAGAAATCCATYATCTGTGCTGTCAATT 60
DB 1 CTTACTGTCAAGAGAGAGGATATACGAGAGAGAAATCCATYATCTGTGCTGTCAATT 60
OY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
OY 121 GATGAAAAACGACAGAGGCCGAGCCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
DB 121 GATGAAAAACGACAGAGGCCGAGCCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
OY 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCGGCTTGTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCGGCTTGTAAAGC 240
OY 241 CGCTGGCATTTGTTGACCCAGATGATCTGTGTGGCGGACGACCTAGTGTATCTCAGA 300
DB 241 CGCTGGCATTTGTTGACCCAGATGATCTGTGTGGCGGACGACCTAGTGTATCTCAGA 300
OY 301 AAGCAAGGGGGTGGAGAGAGACCAACGAGCCTACGANTC 340
DB 301 AAGCAAGGGGGTGGAGAGAGACCAACGAGCCTACGANTC 340
```

RESULT 2

US-08-836-075A-99
Sequence 99, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 99:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-99

Query Match 99.1%; Score 309.8; DB 3; Length 340;
Best Local Similarity 94.1%; Pred. No. 9.7e-89;
Matches 320; Conservative 1; Mismatches 19; Indels 0; Gaps 0;

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OY 1 CTTACTGTCAAGAGAGGATATACGAGAGAGAAATCCATYATCTGTGCTGTCAATT 60
DB 1 CTTACTGTCAAGAGAGGATATACGAGAGAGAAATCCATYATCTGTGCTGTCAATT 60
OY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
OY 121 GATGAAAAACGACAGAGGCCGAGCCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
DB 121 GATGAAAAACGACAGAGGCCGAGCCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
OY 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCGGCTTGTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCGGCTTGTAAAGC 240
OY 241 CGCTGGCATTTGTTGACCCAGATGATCTGTGTGGCGGACGACCTAGTGTATCTCAGA 300
DB 241 CGCTGGCATTTGTTGACCCAGATGATCTGTGTGGCGGACGACCTAGTGTATCTCAGA 300
OY 301 AAGCAAGGGGGTGGAGAGAGACCAACGAGCCTACGANTC 340
DB 301 AAGCAAGGGGGTGGAGAGAGACCAACGAGCCTACGANTC 340
```

RESULT 3

US-08-836-075A-101
Sequence 101, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 335 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-101

Query Match 90.9%; Score 309; DB 3; Length 335;
Best Local Similarity 94.0%; Pred. No. 1.7e-88;
Matches 315; Conservative 5; Mismatches 15; Indels 0; Gaps 0;

QY 1 CTTCTACTGTCAAGAGAGGATATACGAACAGAGGATCCATYATCTGGCTTGTCAATT 60
DB 1 CTCACCTTCTACTGAGAGAGACATACGACAGAGAAATCCTATYTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCGGAAGAGGCCCGGAAGGCCATTAATCACTGACAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACGCAAGAGGCCGAGCTTGGGATACAGGGCTTGGCGGAGCGGGGTATT 180
DB 121 GATGAAAAACGCAAGAGGCCGAGCTTGGGATATAGGGCTTGGCGGAGCGGGGTATT 180
QY 181 CACCAAGAGCTTGGGGAACACCATGATCTTTTACATCAAGGCGAGGCGCTTGTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTTTACATCAAGGCGAGGCGCTTGTAAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGTGATGCTGTCGCGGACGACCACTAGTGTATCTCAGA 300
DB 241 YGCTGGCATTTGTTGACCCGATGATCTGTCGCGGACGACCACTAGTGTATCTCAGA 300
QY 301 AAGCAAGGGGTTGAGAGAGACCAAGCAAGCAAGCACTTAC 335
DB 301 GAGCAAGGGGTTGAGAGAGACCAAGCAAGCAAGCACTTAC 335

RESULT 4

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 67.2%; Score 228.6; DB 3; Length 340;
Best Local Similarity 79.4%; Pred. No. 7e-63;
Matches 270; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 1 CTTCTACTGTCAAGAGAGGATATACGAACAGAGGATCCATYATCTGGCTTGTCAATT 60
DB 1 CTCACCTTCTACTGAGAGAGACATACGACAGAGAAATCCTATYTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 ACCGGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACGCAAGAGGCCGAGCTTGGGATACAGGGCTTGGCGGAGCGGGGTATT 180
DB 121 CATATGAACAGCAAGAGGGAGCTCTGATACAGGCGTTCGCGGACGAGGAGCT 180
QY 181 CACCAAGAGCTTGGGGAACACCATGATCTTTTACATCAAGGCGAGGCGCTTGTAAAGC 240
DB 181 CACCAAGAGTATGGGGAACACCATGATCTTTTATGTATGAAGCCCTCGACCTGTAAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGTGATGCTGTCGCGGACGACCACTAGTGTATCTCAGA 300
DB 241 TGGCGGATTTGTTGACCCCAAGATGCTGTGTGCGGAGATGACTGTTGTATCTCAGA 300
QY 301 AAGCAAGGGGTTGAGAGAGACCAAGCAAGCAAGCACTTAC 340
DB 301 GAGTCAAGGGGTTGAGAGAGACCAAGCAAGCAAGCACTTAC 340

RESULT 5

US-09-878-281A-215
Sequence 215, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 215
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-215

Query Match 66.6%; Score 226.6; DB 3; Length 340;
Best Local Similarity 79.5%; Pred. No. 3e-62;
Matches 268; Conservative 0; Mismatches 69; Indels 0; Gaps 0;

RESULT 6
US-08-441-971-15
; Sequence 15, Application US/08441971

1 GENERAL INFORMATION:
2 APPLICANT: Tai-An Cha
3 TITLE OF INVENTION: HIV GENOMIC SEQUENCES FOR
4 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
5 NUMBER OF SEQUENCES: 147
6
7 CORRESPONDENCE ADDRESS:
8 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
9 STREET: 600 Atlantic Avenue
10 CITY: Boston
11 STATE: Massachusetts
12 COUNTRY: USA
13 ZIP: 02210
14
15 COMPUTER READABLE FORM:
16 MEDIUM TYPE: Diskette, 5.25 inch
17 COMPUTER: IBM compatible
18 OPERATING SYSTEM: MS-DOS Version 3.3
19 SOFTWARE: Wordperfect 5.1
20 CURRENT APPLICATION DATA:
21 APPLICATION NUMBER: US/08/441,971
22 FILING DATE: 16-MAY-1995
23
24 CLASSIFICATION: 435
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER: US/08/221,653
27 FILING DATE:
28 APPLICATION NUMBER: US/07/881,528
29 FILING DATE:
30 APPLICATION NUMBER: 07/697,326
31 FILING DATE: 8 May 1991
32 ATTORNEY/AGENT INFORMATION:
33 NAME: Jantluk, Anthony J.
34 REGISTRATION NUMBER: 29,809
35 REFERENCE/DOCKET NUMBER: C0772/7000
36 TELECOMMUNICATION INFORMATION:
37 TELEPHONE: (617) 720-3500
38 TELEFAX: (617) 720-2441
39
40 TEXT: EZEKIEL
41
42 INFORMATION FOR SEQ ID NO: 15:
43 SEQUENCE CHARACTERISTICS:
44 LENGTH: 340 nucleotides
45 TYPE: nucleic acid
46 STRANDEDNESS: single
47 TOPOLOGY: linear
48 MOLECULE TYPE: DNA
49
50 ORIGINAL SOURCE:

Query Match	64.8%	Score 220.2;	DB 3;	Length 340;
Best Local Similarity	77.6%	Pred. No. 3.3e-60;		
Matches 264; Conservative	1;	Mismatches 75;	Indels 0;	Gaps 0;

QY	CTCTACAGTTCACAGAGAGAGGATATTCAGAACAGAGGAATCCATATATCTGGCTTGTCAAAT	60
Db	1 CTCTACAGTTCACAGAGAGGATATTCAGAACAGAGGAATCCATATATCTGGCTTGTCAAAT	60
QY	61 GCCCGAAGAGGCCCCGGAAGGCATCAATCACTGACAGAGATATTAAGTGGCCGCC	120
Db	61 GCTTGAGAGAGGCCCGGAATCTTATACACTCACTGACAGAGATCTGACGAGCGGGGCC	120
QY	121 GATGGAAGAACGCGAAGGCGCAGGCGCTGCGGATACAGCGTGTCCGCGCGAAGCGGGGTATT	180
Db	121 CATGACAAACAGCAAGAGGGGCAATCCTGCGGGGTACAGGGGTGTCCGCGCGAAGCGGAGTGCT	180
QY	181 CACCACAAAGCTGGGGGAACACCATCATCTGTATACATCAAGCCAAAGCGGCTGTAAAGC	240
Db	181 CACACACAGATAGGGGACACGCTCACGTCGCTACCTGAAACCCAGAGGGGGGTAAAGC	240
QY	241 CGCTGGCATTTGTTGACCCAGATGATCTCGTGTGCGGCGACACCACTAGTGTCATCTTCAGA	300
Db	241 CGGGGGCATTTGTTGCTCCACCATGTGTGTGGGGCGACGACCTGGTGTGCATCTTCAGA	300
QY	301 AAGCAAGAGGGGTGAGAGAGAACCAACAGACCTTAAGATTC	340
Db	301 GAGTCAGGGGGGTGAGAGAAATGAGAGGAACCTTGAAGATTC	340

; Sequence 15, Application US/08221653
; Patent No. 6190864

```

1 GENERAL INFORMATION:
2 APPLICANT: Tai-An Cha
3 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
4 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
5 NUMBER OF SEQUENCES: 147
6 CORRESPONDENCE ADDRESS:
7 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
8 STREET: 600 Atlantic Avenue
9 CITY: Boston
10 STATE: Massachusetts
11 COUNTRY: USA
12 ZIP: 02210
13 COMPUTER READABLE FORM:
14 MEDIUM TYPE: Dikette, 5.25 inch
15 COMPUTER: IBM compatible
16 OPERATING SYSTEM: MS-DOS Version 3.3
17 SOFTWARE: Wordperfect 5.1
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER: US/08/221,653
20 FILING DATE:
21 CLASSIFICATION: 435
22 PRIOR APPLICATION DATA:
23 APPLICATION NUMBER: US/07/881,528
24 FILING DATE:
25 APPLICATION NUMBER: 07/697,326
26 FILING DATE: 8 May 1991
27 ATTORNEY/AGENT INFORMATION:
28 NAME: Janluk, Anthony J.
29 REGISTRATION NUMBER: 29,809
30 REFERENCE/DOCKET NUMBER: C0772/7000
31 TELECOMMUNICATION INFORMATION:
32 TELEPHONE: (617) 720-3500
33 TELEFAX: (617) 720-2441
34 TELTEL: EZEKIEL
35 INFORMATION FOR SEQ ID NO: 15:
36 SEQUENCE CHARACTERISTICS:
37 LENGTH: 340 nucleotides

```

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 64.8%; Score 220.2; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 3.3e-60;
Matches 264; Conservative 1; Mismatches 75; Indels 0; Gaps 0;

QY 1 CTCTACTGTCACAGAGAGGATATACGACAGAGGATCCATCTATCTGCTTCAATT 60
DB 1 CTCTACAGTCACAGAGAGGAGATCAGAACGAGAGTCATCTATCTGCTCTCACT 60
QY 61 GCCCGAAGAGGCCCGGAGAGCCATCAATCACTGACAGAGAGACTATACGTGGGCGCC 120
DB 61 GCTGAGAGAGGCCCGGAGAGCCATCTATCTGCTGACAGAGAGACTATACGTGGGCGCC 120
QY 121 GATGAAAAACAGAGAGGCGCCGCTGAGATACAGGGGTTGCGCGAGCGGGGTATT 180
DB 121 CATGCAAAACAGAGAGGCGCATCTGCGGCTACAGGGGTTGCGCGAGCGGGGTCT 180
QY 181 CACCAAGCTTGGGGAACACCATGATCTTTATCATCAAGGCGGCTTTAAAGC 240
DB 181 CACCAAGCATGGGCAACAGCTCACTGCTACCTGAAAGCAGAGCGGCTTTAAAGC 240
QY 241 CGCTGCAATTGTTGACCCAGTGATGCTGCTGCGGCGAGCACTAGTGTCTATCAGA 300
DB 241 CGCGGCAATTGTTGCTCCACCATGTTGTTGCGGCGAGCACTGTTGCTATCTAGA 300
QY 301 AAGCAAGGGGTGAGAGAGCAACGAGAGCCTTACAGANTC 340
DB 301 GAGTCAGGGGTGAGAGAGATGAGCGGAACCTGAGAGTC 340

RESULT 8

US-08-442-144A-15
Sequence 15, Application US/08442144A

Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442.144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yatcho Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121

TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 64.8%; Score 220.2; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 3.3e-60;
Matches 264; Conservative 1; Mismatches 75; Indels 0; Gaps 0;

QY 1 CTCTACTGTCACAGAGAGGATATACGACAGAGGATCCATCTATCTGCTTCAATT 60
DB 1 CTCTACAGTCACAGAGAGGAGATCAGAACGAGAGTCATCTATCTGCTCTCACT 60
QY 61 GCCCGAAGAGGCCCGGAGAGCCATCAATCACTGACAGAGAGACTATACGTGGGCGCC 120
DB 61 GCTGAGAGAGGCCCGGAGAGCCATCTATCTGCTGACAGAGAGACTATACGTGGGCGCC 120
QY 121 GATGAAAAACAGAGAGGCGCCGCTGAGATACAGGGGTTGCGCGAGCGGGGTATT 180
DB 121 CATGCAAAACAGAGAGGCGCATCTGCGGCTACAGGGGTTGCGCGAGCGGGGTCT 180
QY 181 CACCAAGCTTGGGGAACACCATGATCTTTATCATCAAGGCGGCTTTAAAGC 240
DB 181 CACCAAGCATGGGCAACAGCTCACTGCTACCTGAAAGCAGAGCGGCTTTAAAGC 240
QY 241 CGCTGCAATTGTTGACCCAGTGATGCTGCTGCGGCGAGCACTAGTGTCTATCAGA 300
DB 241 CGCGGCAATTGTTGCTCCACCATGTTGTTGCGGCGAGCACTGTTGCTATCTAGA 300
QY 301 AAGCAAGGGGTGAGAGAGCAACGAGAGCCTTACAGANTC 340
DB 301 GAGTCAGGGGTGAGAGAGATGAGCGGAACCTGAGAGTC 340

RESULT 9

US-08-441-970-15
Sequence 15, Application US/08441970

Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P. C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326

COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-970-16

Query Match 64.6%; Score 219.8; DB 3; Length 340;
Best Local Similarity 78.0%; Pred. No. 4,5e-60;
Matches 263; Conservative 1; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTTACTGTGTCACAGAGGGATATACGAAAGGATCCATYATCTGGCTGTTCATT 60
DB 1 CTTACAGTACGAGAGGAGGACATCAGAACGAGAGTCCATCTATCTGTCTGTTCACT 60
QY 61 GCCCGAAGAGGCCCGGAGGCCCATCAATCACTGACAGAGACTATACGTGGGCGGCC 120
DB 61 GCGTGAAGGAGGCTCAACTGACACTGACTGAGAGGCTGTACGTAGGGGGGCC 120
QY 121 GATGAAAAACAGCAAGGCGCTGGGATACAGCGGCTTCCCGGCAAGGGGATTT 180
DB 121 CATGCAAAACAGCAAGGCGCATCTGCGGGTACAGGGGTTGCCGCGAGGAGTGTCT 180
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCAAGGCGGCTTTAAAGC 240
DB 181 CACCAAGCATGGTAAACACATCGTCTACGTGAAGCTAAAGCGGATGTAAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGTATGCTGTGTGGCGGACGACCTTAGTGTATCTCAGA 300
DB 241 CGCGGGCATTTGTTGCCCCACCATGTGTGTGGCGGACGACCTAGTGTATCTCAGA 300
QY 301 AAGCAAGGGGTGAGAGAGCAACGACGACCTTAAAG 337
DB 301 GAGTCAAGGGGTGAGAGAGATGACGAAACCTTGA 337

RESULT 14
US-07-925-695-6
Sequence 6, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WOI 64470
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-6

Query Match 64.2%; Score 218.2; DB 2; Length 9511;
Best Local Similarity 64.1%; Pred. No. 5.9e-59;
Matches 216; Conservative 47; Mismatches 74; Indels 0; Gaps 0;

QY 1 CTTACTGTGTCACAGAGGGATATACGAAAGGATCCATYATCTGGCTGTTCATT 60
DB 8342 CUCAACCGUCACGAGAGGGGACAUAAAGAACAGAAUUAUACAGCGUUCUCU 8401
QY 61 GCCCGAAGAGGCCCGGAGGCCCATCAATCACTGACAGAGACTATACGTGGGCGGCC 120
DB 8402 GCTCCAAAGAACCGCAACUCGUCACACUCGUCACAGAGAUUUAUCGAGAGGAGCC 8461
QY 121 GATGAAAAACAGCAAGGCGCGCTGGGATACAGCGGCTTCCCGCAAGCGGGTATT 180
DB 8462 CAUACAAACAGCAAGGCGCAUCUCGCGUCACAGCGCGUUCGCGCAAGCGGKUUU 8521
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCAAGGCGGCTTTAAAGC 240
DB 8522 CACCAAGCAAGGGGAUUAUCAUAGAUUUAUCAAAGCCUUCACCGUUAAGGC 8581
QY 241 CGCTGGCATTTGTTGACCCAGTATGCTGTGTGGCGGACGACCTTAGTGTATCTCAGA 300
DB 8582 UGCRGGAGUCGUGAGCCUGUUAUGUGUGUGAGAGACGACCCUGUGUCUACUCACGA 8641

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6

US-08-221-653-16

Query Match 64.6%; Score 219.8; DB 3; Length 340;
Best Local Similarity 78.0%; Pred. No. 4.5e-60;
Matches 263; Conservative 1; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTTACTGTCTACAGAGGGATATACGAGACAGAGATCCATCTATCTGCTGTTCATT 60
DB 1 CTTCTACGTACAGAGGGATACAGACAGAGATCCATCTATCTGCTGTTCATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGGCGCC 120
DB 61 GCTTGAGAGGGCTCAACTGCTATCACTCACTGACTGAGAGGCTGTACGTAGGGGGCC 120
QY 121 GATGAAAAACAGACAGGCGCTGCGATACAGGCGTTGCCGCAAGCGGGTATT 180
DB 121 CATGCAAAACAGCAAGGGCAATCTCTCGGGTACAGCGCTTCCCGCGAGCGAGTCT 180
QY 181 CACCAAGAGCTTGGGAAACACCATGACTTTTATCATCAAGCGCGCTTTGTAAGC 240
DB 181 CACCAAGAGCTTGGGAAACACCATGACTTTTATCATCAAGCGCGCTTTGTAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGATGATCTGCTGCGCGCAAGCCTTAGTGTCATTCAGA 300
DB 241 CGCGGGCATTTGTTGCCCCCACCATTGTGTGTGCGCGCAAGCCTTAGTGTCATTCAGA 300
QY 301 AAGCAAGGGGTGAGAGAGACCAAGCCTTAGCA 337
DB 301 GAGTCAAGGGGTGAGAGAGATGAGCAAACTTGAGA 337

RESULT 12

US-08-442-144A-16
; Sequence 16, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6

US-08-442-144A-16

Query Match 64.6%; Score 219.8; DB 3; Length 340;
Best Local Similarity 78.0%; Pred. No. 4.5e-60;
Matches 263; Conservative 1; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTTACTGTCTACAGAGGGATATACGAGACAGAGATCCATCTATCTGCTGTTCATT 60
DB 1 CTTCTACGTACAGAGGGATACAGACAGAGATCCATCTATCTGCTGTTCATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGGCGCC 120
DB 61 GCTTGAGAGGGCTCAACTGCTATCACTCACTGACTGAGAGGCTGTACGTAGGGGGCC 120
QY 121 GATGAAAAACAGACAGGCGCTGCGATACAGGCGTTGCCGCAAGCGGGTATT 180
DB 121 CATGCAAAACAGCAAGGGCAATCTCTCGGGTACAGCGCTTCCCGCGAGCGAGTCT 180
QY 181 CACCAAGAGCTTGGGAAACACCATGACTTTTATCATCAAGCGCGCTTTGTAAGC 240
DB 181 CACCAAGAGCTTGGGAAACACCATGACTTTTATCATCAAGCGCGCTTTGTAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGATGATCTGCTGCGCGCAAGCCTTAGTGTCATTCAGA 300
DB 241 CGCGGGCATTTGTTGCCCCCACCATTGTGTGTGCGCGCAAGCCTTAGTGTCATTCAGA 300
QY 301 AAGCAAGGGGTGAGAGAGACCAAGCCTTAGCA 337
DB 301 GAGTCAAGGGGTGAGAGAGATGAGCAAACTTGAGA 337

RESULT 13

US-08-441-970-16
; Sequence 16, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION: